

SERVICE MANUAL

DX-1A CHASSIS

MODEL NAME	REMOTE COMMANDER	<u>DESTINATION</u>	CHASSIS NO.
KV-32HS20	RM-Y183	US	SCC-S47F-A
	NW-1103	03	300-347F-A
KV-36HS20	RM-Y183	US	SCC-S47E-A
KV-36HS20H	RM-Y183	HAWAII	SCC-S54C-A
KV-32XBR450	RM-Y184	US	SCC-S47D-A
KV-32XBR450	RM-Y184	CND	SCC-S48D-A
KV-36XBR450	RM-Y184	US	SCC-S47C-A
KV-36XBR450	RM-Y184	CND	SCC-S48C-A
KV-36XBR450H	RM-Y184	HAWAII	SCC-S54B-A





RM-Y184

TRINITRON® COLOR TELEVISION



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SPECIFICATIONS

	KV-32HS20 KV-32XBR450	KV-36HS20 KV-36HS20H KV-36XBR450 KV-36XBR450H
Power Requirements	120V,	60Hz
Number of Inputs/Outputs Video 1) S Video 2) Y, PB, PR 3) Audio 4) Audio Out 5) Monitor Out Control-S (in/out) Speaker Output (W)	4 3 2 6 2 1 YES 7.5W x 4	
Power Consumption (W) In Use (Max) In Standby	245W 2W	
Dimensions (W x H x D) mm in	898 x 678 x 579.5 mm 35 ^{3/8} x 26 ^{3/4} x 27 ^{7/8} in	994 x 754.5 x 622 mm 39 ^{9/64} x 29 ^{45/64} x 24 ^{1/2} in
Mass kg lbs	84 kg 185 lbs.	108 kg 238 lbs.

Television system

American TV standard, NTSC

Channel coverage

VHF: 2-13/ VHF: 14-69/ CATV: 1-125

Picture tube

FD Trinitron® tube

Visible screen size

32-inch picture measured diagonally (KV-32HS20/32XBR450 ONLY) 36-inch picture measured diagonally (All Except KV-32HS20/32XBR450)

Actual screen size

34-inch measured diagonally (KV-32HS20/32XBR450 ONLY) 38-inch measured diagonally (All Except KV-32HS20/32XBR450)

Antenna

75 ohm external terminal for VHF/UHF

Supplied Accessories

Remote Commander RM-Y183 (KV-32HS20/36HS20/36HS20H ONLY)
Remote Commander RM-Y184 (KV-32XBR450/36XBR450/36XBR450H ONLY)
Two Size AA (R6) Batteries

Optional Assessories

Connecting cables: RK-74A, VMC-810S/820/830HGS, VMC-720M, VMC-810S/820S, YC-15V/30V, YC-15/30HG, RKG69HG, RKC-515HG

U/V mixer: EAC-66

TV Stand: SU-32HS2 (KV-32HS20 ONLY)

SU-36HS2 (KV-36HS20/36HS20H ONLY) SU-32XBR45 (KV-32XBR450 ONLY)

SU-36XBR45 (KV-36XBR450/36XBR450H ONLY)

Design and specifications are subject to change without notice.

- 1) 1 Vp-p 75 ohms unbalanced, sync negative
- 2) Y: 1 Vp-p 75 ohms unbalanced, sync negative
- C: 0.286 Vp-p (Burst signal), 75 ohms
 3) Y: 1.0 Vp-p, 75 ohms, sync negative;

PB: 0.7 Vp-p. 75 ohms

PR: Vp-p, 75 ohms

- 4) 500 mVrms (100% modulation), Impedance: 47 kilohms
- More than 408 mVrms at the maximum volume setting (variable)
 More than 408 mVrms (fix)



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WARNINGS AND CAUTIONS

CAUTION

Short circuit the anode of the picture tube and the anode cap to the metal chassis, crt shield, or carbon painted on the crt, after removing the anode.

WARNING!!

An isolation transformer should be used during any service to avoid possible shock hazard, because of live chassis. The chassis of this receiver is directly connected to the ac power line.



Components identified by shading and \triangle mark on the schematic diagrams, exploded views, and in the parts list are critical for safe operation. Replace these components with sony parts whose part numbers appear as shown in this manual or in supplements published by sony. Circuit adjustments that are critical for safe operation are identified in this manual. Follow these procedures whenever critical components are replaced or improper operation is suspected.

ATTENTION!!

Apres avoir deconnecte le cap de l'anode, court-circuiter l'anode du tube cathodique et celui de l'anode du cap au chassis metallique de l'appareil, ou la couche de carbone peinte sur le tube cathodique ou au blindage du tube cathodique.

Afin d'eviter tout risque d'electrocution provenant d'un chássis sous tension, un transformateur d'isolement doit etre utilisé lors de tout dépannage. Le chássis de ce récepteur est directement raccordé à l'alimentation du secteur.



Les composants identifies par une trame et par une marque \triangle sur les schemas de principe, les vues explosees et les listes de pieces sont d'une importance critique pour la securite du fonctionnement. Ne les remplacer que par des composants sony dont le numero de piece est indique dans le present manuel ou dans des supplements publies par sony. Les reglages de circuit dont l'importance est critique pour la securite du fonctionnement sont identifies dans le present manuel. Suivre ces procedures lors de chaque remplacement de composants critiques, ou lorsqu'un mauvais fonctionnement suspecte.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.
- Check the interboard wiring to ensure that no wires are "pinched" or touching high-wattage resistors.
- Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
- Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
- Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

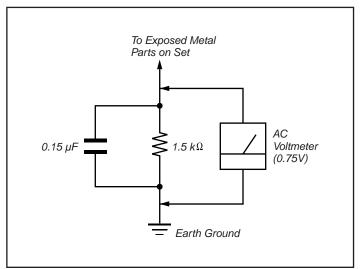


Figure A. Using an AC voltmeter to check AC leakage.

Leakage Test

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instructions.
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson's 250 and Sanwa SH-63TRD are examples of passive VOMs that are suitable. Nearly all battery-operated digital multimeters that have a 2 VAC range are suitable (see Figure A).

How to Find a Good Earth Ground

A cold-water pipe is a guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms.

If a cold-water pipe is not accessible, connect a 60- to 100-watt trouble-light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side on the line; the lamp should light at normal brilliance if the screw is at ground potential (see Figure B).

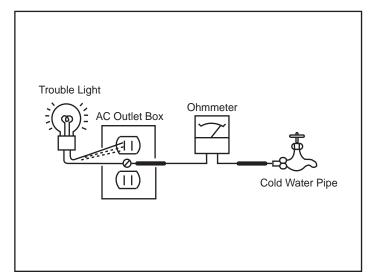


Figure B. Checking for earth ground.

SELF-DIAGNOSTIC FUNCTION



The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/STEREO LED will automatically begin to flash. The number of times the LED flashes translates to a probable source of the problem. A definition of the STANDBY/STEREO LED flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the Remote Commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

Diagnostic Test Indicators

When an error occurs, the STANDBY/STEREO LED will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the LED will identify the first of the problem areas.

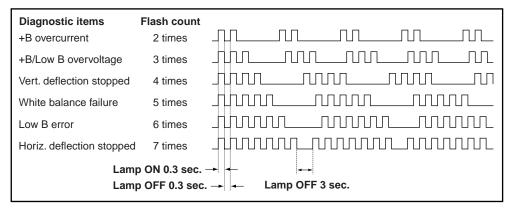
Results for all of the following diagnostic items are displayed on screen. If the screen displays a "0", and error has occurred.

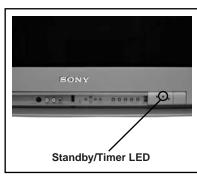
Diagnostic Item	No. of times STANDBY/ STEREO lamp flashes	Display Result	Probable Cause Location	Detected Symptoms
Power does not turn on	Does not light		Power cord is not plugged in. Fuse is burned out (F5501)	Power does not come on. No power is supplied to the TV. AC power supply is faulty.
+B overcurrent (OCP) (see Note 1)	2 times	2:0 or 2:1	H.OUT (Q5030) is shorted. (D Board) +B PWM (Q5003) is shorted (D Board) IC9001, IC9002, IC9003 is shorted (C Board)	Power does not come on. Load on power line is shorted.
Low B overvoltage (OVP)	3 times	3:0 or 3:1	IC6505 is faulty. (D Board)	Has entered standby mode.
Vertical deflection stopped	4 times	4:0 or 4:1	± 15V is not supplied. (D Board) IC5004 is faulty. (D Board)	Has entered standby state after horizontal raster. Vertical deflection pulse is stopped. Power line is shorted or power supply is stopped.
White balance failure (not balanced)	5 times	5:0 or 5:1	Video OUT (IC9001-IC9003) is faulty. (C Board) CRT drive (IC201) is faulty. (A Board) G2 is improperly adjusted. (see Note 2)	No raster is generated. CRT cathode current detection reference pulse output is small.
LOW B OCP/OVP (overcurrent/overvoltage) (see Note 3)	6 times	6:0 or 6:1	+5 line is overloaded. (A, B Boards) +5 line is shorted. (A, B Boards) IC6007 is faulty. (A Board)	No picture
Horizontal Deflection stopped	7 times	7:0 or 7:1		No picture

Note 1: If a +B overcurrent is detected, stoppage of the vertical deflection is detected simultaneously. The symptom that is diagnosed first by the microcontroller is displayed on screen. Note 2: Refer to Screen (G2) Adjustment in Section 3-4 of this manual.

Note 3: If STANDBY/STEREO LED flashes six (6) times, unplug the unit and wait 10 seconds before performing the adjustment

Display of Standby/Timer LED Flash Count





 One flash count is not used for selfdiagnostic.

Stopping the Standby/Timer LED Flash

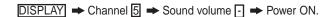
Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY/TIMER LAMP from flashing.

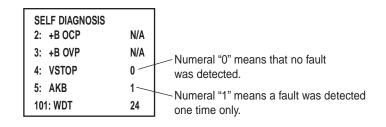
Self-Diagnostic Screen Display

For errors with symptoms such as "power sometimes shuts off" or "screen sometimes goes out" that cannot be confirmed, it is possible to bring up past occurrences of failure on the screen for confirmation.

To Bring Up Screen Test

In standby mode, press buttons on the Remote Commander sequentially, in rapid succession, as shown below:





Handling of Self-Diagnostic Screen Display

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen during repairs. When you have completed the repairs, clear the result display to "0".

Unless the result display is cleared to "0", the self-diagnostic function will not be able to detect subsequent faults after completion of the repairs.

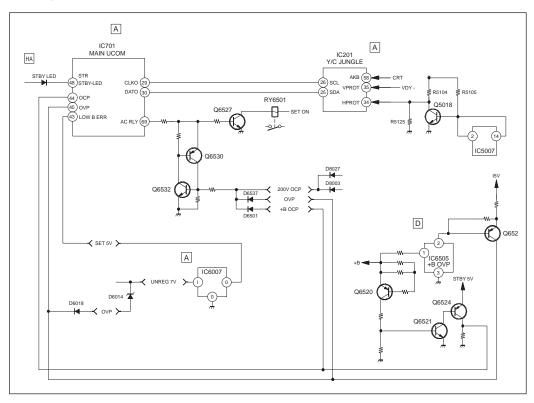
Clearing the Result Display

To clear the result display to "0", press buttons on the Remote Commander sequentially when the diagnostic screen is displayed, as shown below:

Quitting the Self-Diagnostic Screen

To quit the entire self-diagnostic screen, turn off the power switch on the Remote Commander or the main unit.

Self-Diagnostic Circuit



+B overcurrent (OCP)

Occurs when an overcurrent (more than 6A) on the +B (135V) line is detected by R6598/R6591. It will cause Q6520 to turn on and force the AC relay to turn off through Q6532 and Q6530.

+B overvoltage (OVP)

Occurs when 1) overvoltage (more than +140V) on the +B (135V) line is detected by IC6505, or 2) an overvoltage (more than 7.5 V) on the unreg 7V line is detected by D6014. The AC relay will turn off through Q6532 and Q6530.

Vertical Deflection Stopped

Occurs when an absence of the vertical deflection pulse is detected by IC201. Power supply will shut down when waveform interval exceeds 2 seconds.

White Balance Failure

If the RGB levels* do not balance within 2 seconds after the power is turned on, this error will be detected by IC201. TV will stay on, but there will be no picture.

*(Refers to the RGB levels of the AKB detection Ref pulse that detects 1K).

Low B Error

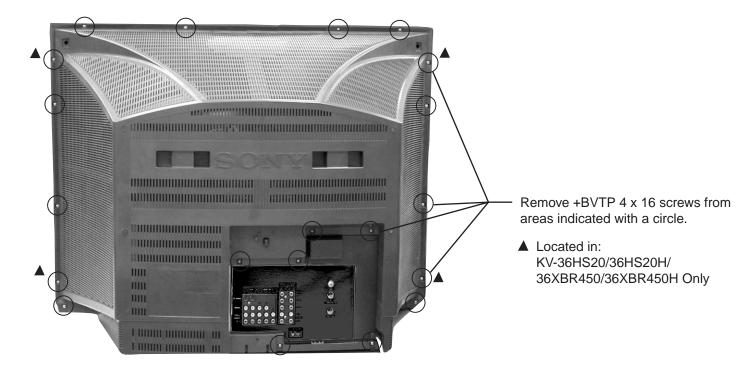
Occurs when set 5V is out.

Horizontal Deflection Stopped

Occurs when either: 1) a +B overcurrent is detected (IC5007), or 2) overheating is detected (Thermistor TH5002).

SECTION 1: DISASSEMBLY

1-1. REAR COVER REMOVAL



1-2. CHASSIS ASSEMBLY REMOVAL



- (1) <u>CAUTION!</u> Heat sink on IC5004 is -15V. Care must be taken not to allow heat sink to touch any other components.
- 2 Lift lever up on the right and left sides of the chassis bracket and gently pull the chassis assembly away from the bezel.

1-3. SERVICE POSITION



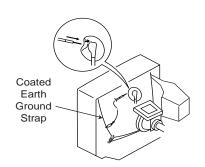
1 Pull up and rotate both the A and D boards in order to service the unit.

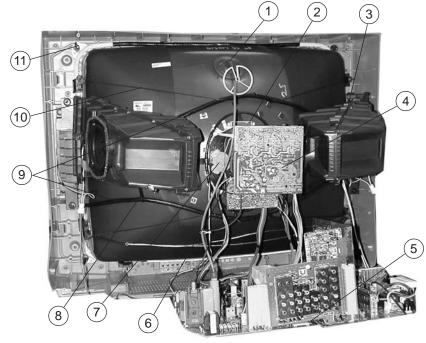
1-4. PICTURE TUBE REMOVAL

WARNING: BEFORE REMOVING THE ANODE CAP

High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT before attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.

- 1 Discharge the anode of the CRT and remove the anode cap.
- Unplug all interconnecting leads from the deflection yoke, neck assembly, degaussing coils and CRT grounding strap.
- (3) Remove the Speaker Assemblies.
- (4) Remove the C Board from the CRT.
- (5) Remove the chassis assembly.
- (6) Loosen the neck assembly fixing screw and remove.
- (7) Loosen the deflection yoke fixing screw and remove.
- (8) Place the set with the CRT face down on a cushion and remove the degaussing coil holders.
- (9) Remove the degaussing coils.
- (10) Remove the CRT grounding strap and spring tension devices.
- (11) Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT [Take care not to handle the CRT by the neck].

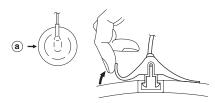




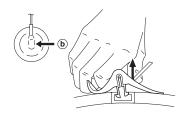
ANODE CAP REMOVAL PROCEDURE

WARNING: High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT before attempting to remove the anode cap. After removing the anode cap, short circuit to either the metal chassis, CRT shield, or carbon painted on the CRT.

REMOVAL PROCEDURES



Turn up one side of the rubber cap inthe direction indicated by arrow (a) .



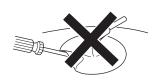
Use your thumb to pull the rubber cap firmly in the direction indicated by arrow (b).



When one side of the rubber cap separates from the anode button, the anode cap can be removed by turning the rubber cap and pulling it in the direction of arrow ©.

HOW TO HANDLE AN ANODE CAP

- Do not use sharp objects which may cause damage to the surface of the anode cap.
- 2. To avoid damaging the anode cap, do not squeeze the rubber covering too hard. A material fitting called a shatter-hook terminalis built into the rubber.
- Do not force turn the foot of the rubber cover. This may cause the shatter-hook terminal to protrude and damage the rubber.





SECTION 2: SET-UP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

These adjustments should be performed with rated power supply voltage unless otherwise noted.

The controls and switch should be set as follows unless otherwise noted:

VIDEO MODE: STANDARD (RESET)

Perform the adjustments in order as follows:

- 1. Beam Landing
- 2. Convergence
- 3. Focus
- 4. Screen (G2)
- 5. White Balance

Test Equipment Required:

- 1. Color Bar Pattern Generator
- 2. Degausser
- 3. DC Power Supply
- 4. Digital Multimeter

2-1. BEAM LANDING

Preparation:

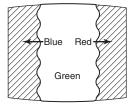
- · Input a white pattern signal.
- Face the picture tube in an East or West direction to reduce the influence of geomagnetism.

NOTE: Do not use the hand degausser; it magnetizes the CRT.

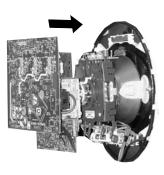
- 1. Input white pattern from pattern generator. Set the PICTURE control to maximum, and the BRIGTNESS control to standard.
- 2. Perform Focus, G2 and White Balance adjustments.
- 3. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown below:



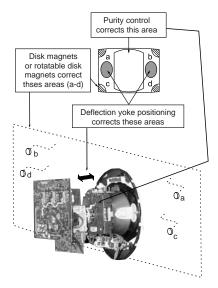
- 4. Input a green pattern from the pattern generator.
- Move the deflection yoke backwards, and adjust with the purity control so that green is in the center and red and blue are even on both sides.



6. Move the deflection yoke forward, and adjust so that the entire screen becomes green.



- Switch over the raster signal to red and blue and confirm the condition.
- 8. When the position of the deflection yoke is determined, tighten it with the deflection yoke mounting screw.
- 9. If landing at the corner is not right, adjust it by using the disk magnets.



2-2. V-PIN AND V-CEN ADJUSTMENT

Preparation:

- · Input a cross hatch pattern signal.
- Face the picture tube in a North/South direction and correct rotation.
- Set Video Mode to: Satndard (Reset)
- 1. Adjust service mode CXA2150D-1 04 VCEN so that the top pin and and bottom pin are symmetrical from top to bottom.
- 2. Adjust service mode CXA2150D-1 05 VPIN so that the top pin and and bottom pin are symmetrical from top to bottom.
- Lines should be straight from left to right. Check landing for side effect

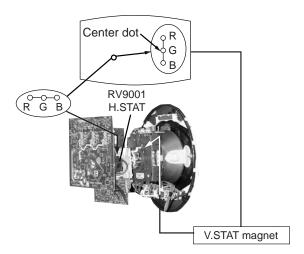
2-3. CONVERGENGE

Preparation:

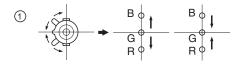
- Set the CONTRAST and BRIGHTNESS control to 50%
- · Input dot pattern signal.

2-3.1. VERTICAL AND HORIZONTAL STATIC CONVERGENCE

- Disconnect the dynamic convergence before adjusting static convergence (CN5510), except for minor touch-up.
- 2. Adjust H.STAT convergence, RV9001, to converge red, green, and blue dots in the center of the screen.
- Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen.



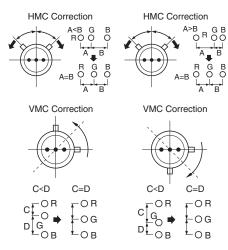
4. Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.



2-3.2. OPERATION OF BMC (HEXAPOLE) MAGNET

The respective dot positions resulting from moving each magnet interact. So, perform the following adjustments while tracking.

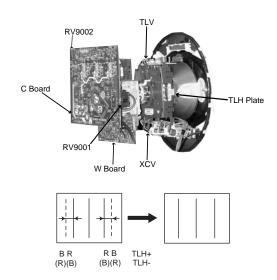
 Use the V.STAT tabs to adjust the red, green and blue dots so that they line up at the center of the screen (move the dots in a horizontal direction).



2-3.3. TLH PLATE ADJUSTMENT

Preparation:

- Input a cross hatch pattern signal.
- Adjust unbalanced horizontal convergence of red and blue dots by adjusting the TLH plate on the deflection yoke.



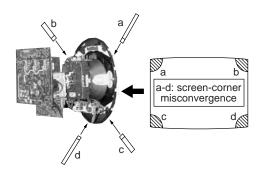
- 1. Adjust XCV core to balance X axis.
- 2. Adjust the vertical red and blue convergence with V.TILT (TLV VR).

Note: Perform adjustments while tracking item 1.

2-3.4. SCREEN-CORNER CONVERGENCE

Preparation:

- · Input a cross hatch pattern signal.
- 1. Affix a permalloy assembly corresponding to the misconverged areas:



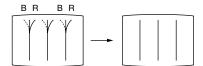
2-3.5. DYNAMIC CONVERGENCE ADJUSTMENTS

Set dynamic convergence using the following service mode adjustment data:

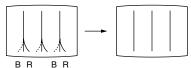
CXA 8070 AP

NO.	Register	Function	Data Length	Initial Data
1	YBWU	VCA9	0-63	31
2	YBWL	VCA10	0-63	31
3	RSAP	DC-AMP1	0-63	31
4	RUBW	VCA5	0-63	31
5	RLBW	VCA6	0-63	31
6	LSAP	DC-AMP2	0-63	31
7	LUBW	VCA10	0-63	31
8	LLBW	VCA2	0-63	31

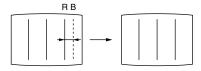
1. YBWU (Upper Y-BOW)



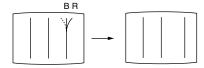
2. YBWL (Bottom BOW)



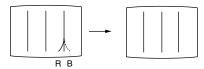
3. RSAP (Right AMP)



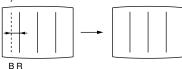
4. RUBW (Right Side Upper C-BOW)



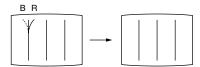
5. RLBW (Right Side Bottom C-BOW)



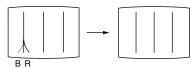
6. LSAP (Left AMP)



7. LUBW (Left Side Upper C-BOW)



8. LLBW (Left Side Bottom C-BOW)



2-4. FOCUS ADJUSTMENT

- 1. Input monoscope signal.
- 2. Set video mode to STANDARD.
- Adjust focus VR counter-clockwise to confirm that the dot's shape is centered.
- 4. Confirm center focus with focus VR.



2-5. SCREEN (G2)

- 1. Input a monoscope pattern (NTSC)
- 2. Set to service mode and adjust as follows:

CXA 2150P-2

NO.	Disp.	Item	Avg.
0	ALBK	ALL BLK	0

- 3. Adjust RV9002 on the C Board so that the voltage on red, green and blue cathodes is 170.0 0.5 V DC.
- 4. Adjust the hotizontal line at the top of the screen so it is cut off.

Note: Never set ALBK to 1 when external power supply is connected to cathode.

2-6. PICTURE QUALITY ADJUSTMENTS

Preparation:

• Set PRO MODE (Picture: MAX, GAMMA: 0)

• Dynamic-color: Off (=Trinitron: MID).

• Set the service mode to the following:

C2150P-4

NO.	Name	Control Function	Avg. Data
		Dynamic Color: OFF	0
08	UGRAM	GRAMMA	0
15	DCTR	DC-TRAN	0
16	DPIC	DYNAMIC PIC: OFF	0

- 1. Input signal (480i):
 - Color Bar Video 75IRE (White) 75% modulation 7.5% Set-up
 - Color Bar RF 75IRE (White) 75% modulation 7.5% Set-up

2-6.1. VIDEO INPUT - TWO PICTURE SUB CONTRAST ADJUSTMENT

Preparation:

- Input a Color Bar signal to VIDEO 1 (75 IRE 75%).
- Set picture mode: P&P (PRO MODE).
- 1. Set to service mode and adjust as follows:

2150P-4

NO.	Name	Control Function	Avg. Data
00	UPIC	PICTURE	63
02	UCOL	COLOR	0

2150P-2

I	NO.	Name	Control Function	Avg. Data
ſ	01	RGBS	R ON	4

INITIAL DATA (IMPORTANT)

2150P-4

NO.	Name	Control Function	Avg. Data
23	SCON	SUB-CONT	9

2103-1

NO.	Name	Control Function	Avg. Data
00	YLEV	Y-OUT	23

2103-2

NO.	Name	Control Function	Avg. Data
00	YLEV	Y-OUT	23

- 2. Connect oscilloscope to Pin 1 of CN9001 (R.DRV) on the C Board
- 3. Adjust MAIN (left) side contrast according to service mode fro SCON.

2103-1

NO.	Name	Control Function
02	SCON	SUB-CONT

4. Adjust SUB (right) side contrast according to service mode for SCON.

2103-2

N	О.	Name	Control Function
()2	SCON	SUB-CONT
		VR1	white VR2 GND

32": VR1-VR2 = \triangle VR = 1.92 ± 0.05 Vp-p 36": VR1-VR2 = \triangle VR = 2.00 ± 0.05 Vp-p

5. Write data from steps 3 and 4 above, into memory.

2-6.2. VIDEO INPUT - SUB HUE/SUB COLOR ADJUSTMENT

Preparation:

- Input a Color Bar signal to VIDEO 1 (75 IRE 75%).
- Set picture mode: P&P (PRO MODE).
- 1. Set to service mode and adjust as follows:

2150P-4

NO.	Name	Control Function	Avg. Data
00	UPIC	PICTURE	63
02	UCOL	COLOR	31

2150P-2

NO.	Name	Control Function	Avg. Data
01	RGBS	R ON	7

- 2. Connect an oscilloscope to pin 5 of CN9001 (B. DRV) on the C Board.
- 3. Adjust MAIN (left) side color according to service mode for SCOL.
- 4. Adjust MAIN (left) side color according to service mode for SHUE.

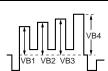
2103-1

NO.	Name	Control Function
03	SCOL	SUB-COL
04	SHUE	SUB-HUE

- 5. Adjust SUB (right) side color according to service mode for SCOL.
- 6. Adjust SUB (right) side color according to service mode for SHUE.

2103-2

NO.	Name	Control Function
03	SCOL	SUB-COL
04	SHUE	SUB-HUE



COLOR: VB1 ≤ VB4 (=VB1 + 0~90 MV) HUE: VB2 ≤ VB3 (=VB2 + 0~90 MV) (HUE: Adjust data - 2 STEP)

7. Write data into memory.

2-6.3. RF INPUT - TWO PICTURE SUB CONTRAST ADJUSTMENT

Preparation:

- Input a Color Bar signal to RF (75 IRE 75%).
- Set picture mode: P&P (PRO MODE).
- 1. Set to service mode and adjust as follows:

2150P-4

NO.	Name	Control Function	Avg. Data
00	UPIC	PICTURE	63
02	UCOL	COLOR	0

2150P-2

NO.	Name	Control Function	Avg. Data
01	RGBS	R ON	4

INITIAL DATA (IMPORTANT)

2150P-4

NO	. Name	Control Function	Avg. Data
23	SCON	SUB-CONT	9

2103-1

NO.	Name	Control Function	Avg. Data
00	YLEV	Y-OUT	23

2103-2

NO.	Name	Control Function	Avg. Data
00	YLEV	Y-OUT	23

Note: Use the same average data as 2-6.1, items 3 and 4 after the adjustment

- Connect an oscilloscope to pin 1 of CN9001 (R. DRV) on the C Board.
- 3. Adjust MAIN (left) side contrast according to service mode fro SCON.

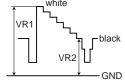
2103-1

		Control Function
02	SCON	SUB-CONT

4. Adjust SUB (right) side contrast according to service mode for SCON.

2103-2

NO.	Name	Control Function	
02	SCON	SUB-CONT	
white			



32": VR1-VR2 = \triangle VR = 1.92 ± 0.05 Vp-p 36": VR1-VR2 = \triangle VR = 2.00 ± 0.05 Vp-p

5. Write data from steps 3 and 4 above, into memory.

2-6.4. RF INPUT - SUB HUE/SUB COLOR ADJUSTMENT

Preparation:

- Input a Color Bar signal to RF (75 IRE 75%).
- Set picture mode: P&P (PRO MODE).
- 1. Set to service mode and adjust as follows:

2150P-4

NO.	Name	Control Function	Avg. Data
00	UPIC	PICTURE	63
02	UCOL	COLOR	31

2150P-4

NO.	Name	Control Function	Avg. Data
01	RGBS	R ON	7

INITIAL DATA (IMPORTANT)

2150P-4

NO.	Name	Control Function	Avg. Data
24	CLOF	OFFSET for UCOL	8
25	HUOF	OFFSET for UHUE	4

2103-1

NO.	Name	Control Function	Avg. Data
01	CLEV	CB & CR-OUT	17
20	CBOF	CB-OFFSET	31
21	CROF	CR-OFFSET	31

2103-2

NO.	Name	Control Function	Avg. Data
01	CLEV	CB & CR-OUT	17
20	CBOF	CB-OFFSET	31
21	CROF	CR-OFFSET	31

Note: Use the same average data as 2-6.2, items 3-6 after the adjustment.

- 2. Connect an oscilloscope to pin 5 of CN9001 (B. DRV) on the C Board.
- 3. Adjust MAIN (left) side color according to service mode for SCOL.
- 4. Adjust MAIN (left) side color according to service mode for SHUE.

2103-1

ı	NO.	Name	Control Function
	03	SCOL	SUB COLOR
	04	SHUE	SUB HUE

- 5. Adjust SUB (right) side color according to service mode for SCOL.
- 6. Adjust SUB (right) side color according to service mode for SHUE.

2103-2

NO.	Name	Control Function
03	SCOL	SUB COLOR
04	SHUE	SUB HUE



COLOR: VB1 \leq VB4 (=VB1 + 0~90 MV) HUE: VB2 \leq VB3 (=VB2 + 0~90 MV) (HUE: Adjust data - 2 STEP)

7. Write data into memory.

2-7. WHITE BALANCE (CRT) AND SUB BRIGHT ADJUSTMENT

Preparation

 Input an all white 480I (15.734 KHz) signal into the VIDEO 1 input terminal to perform the whit balance (highlight, cut-off) adjustments.
 The parameters to adjust are in the CXA2150P in service mode.

1. Set the following:

Picture: Full Mode

Pro Mode

Color: Center

2. Adjust white balance in the service mode and set the following data:

2150P-1

NO.	Name	Control Function	Avg. Data
05	RDRV	R-DRIVE	Fix: 41
06	GDRV	G-DRIVE	Adjust
07	BDRV	B-DRIVE	Adjust
80	RCUT	R-CUT OFF	Fix: 41
09	GCUT	G-CUT OFF	Adjust
10	BCUT	B-CUT OFF	Adjust

 Adjust sub brightness: Input an all black signal (to IRE 7.5% set up) 480i (15.75 KHz) signal into the VIDEO 1 input terminal and adjust the following parameter of CXA2150P-1:

CXA2150P-1

NO.	Name	Control Function	Avg. Data
04	SBRT	SUB-BRIGHT	Adjust

INITIAL DATA (IMPORTANT)

2150P-1

NO.	Name	Control Function	Avg. Data
00	SBOT	SUB-BRT OFFSET	7
12	SBOF	SUB-BRT OFFSET	63

4. Repeat steps 2-3.

2-8. RASTER CENTER ADJUSTMENT

Preparation:

- · Input a monoscope signal.
- · Set to NTSC (DRC) mode.
- 1. Set to service mode and adjsut as follows:

CXA2150P-2

NO.	Name	Control Function	Avg. Data
06	AGNG	AGING 1, AGING 2	2

CXA2150P-2

NO.	Name	Control Function	Avg. Data
02	HSIZ	Horiz Size	31

CXA2150P-3

NO.	Name	Control Function	Avg. Data
00	HBLK	Blanking Enable	0

- 2. Reduce HSIZ to see sides of raster.
- 3. Adjust H-Center with CXA2150D-2 00.
- 4. Adjust to the best screen position with H-CENT and write data.
- 5. Resotore aging, HSIZ and HBLK to original condition.

2-9. PICTURE DISTORTION ADJUSTMENTS

2-9.1. NTSC (DRC) FULL MODE ADJUSTMENT

- 1. Face the picture tube in an east-west direction.
- Complete VPIN and VCEN adjsuments first (A2150-D1 o5 VPIN, A2150-D1 04 VCEN)
- Input a monoscope and crosshatch signal. Adjust the picture distortion with the following service parameters to balance the best condition for these two signals.

A2150-D1	00	VPOS
	00	
A2150-D1	01	VSIZ
A2150-D1	02	VLIN
A2150-D1	03	VSCO
A2150-D1	04	SCEN
A2150-D1	05	VPIN
A2150-D1	06	HTPZ

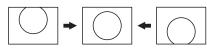
A2150-D2	01	HPOS
A2150-D2	02	HSIZ
A2150-D2	03	SLIN
A2150-D2	04	PIN
A2150-D2	05	UCP
A2150-D2	06	LCP
A2150-D2	07	PPHA
A2150-D2	08	VANG
A2150-D2	09	LANG
A2150-D2	10	VBOW
A2150-D2	11	LBOW

Note: Make sure that the picture size is within specs. Vertical size is 11.8 sq. and horizontal size is 15.8 sq.

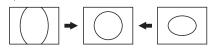
4. Write data into memory and then set the screen to 1080i mode.

CXA2150D-1

0. VPOS (V-POSITION)



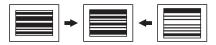
1. VSIZ (V-SIZE)



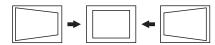
2. VLIN (V-LINE)



3. VSCO (VS-COR)



7. HTPZ (H-TRAPEZOID)



CXA2150D-2

1. HPOS (H-POSITION)



2. HSIZ (H-SIZE)



5. PIN (PIN AMP)



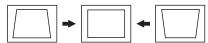
6. UCP (UP COR PIN COR)



7. LCP (LOW CO PIN COR)

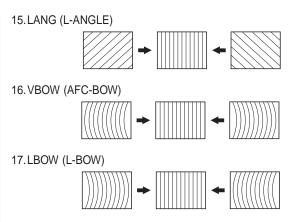


13. PPHA (PIN PHASE)



14. VANG (AFC-ANGLE)





2-9.2. 1080i HD MODE ADJUSTMENT

- 1. Input a 1080i cross-hatch signaland an HD monoscope signal that contains overscan markers.
- 2. Adjust the raster position per section 3-8, only if this procedure was not performed for full mode.
- Adjust the geometry similar to Fill DRC mode. Vertical size is 11.8 sq. and horizontal size is 15.8 sq., if monoscope signal is available. Otherwise, set the vertical size to 91.5% scan and horizontal size as 90% scan.
- 4. Use the following register to adjust the horizontal parameter:

A2150-D2	01	HPOS
AZ 130-DZ	01	111 03

Note: If necessary, touch up the geometry using the data register listed above for Full mode.

5. Write the data into memory.

2-9.3. VERTICAL COMPRESSES MODE CHECK AND CONFIRMATION

- 1. Input a monoscope and crosshatch signal.
- 2. Check vertical compressed mode.

SECTION 3: SAFETY RELATED ADJUSTMENTS

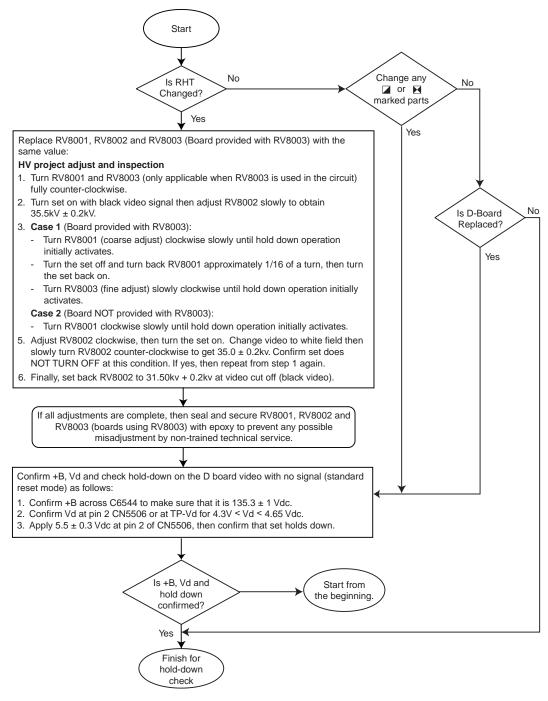
3-1. RV8001, RV8002 CONFIRMATION METHOD AND HV SERVICE ADJUSTMENTS

3-2. B+ MAX CONFIRMATION

Note: If using a stabilized power supply, make sure that the distortion factor is 3% or less.

Setting mode:	Full mode
Signal input:	Cross-hatch of NTSC at QC
Initial setting:	Reset condition at QC
Confirm point:	Across C6544 for B+ of D Board

3-3. HV SERVICE FLOWCHART



SECTION 4: CIRCUIT ADJUSTMENTS

ELECTRICAL ADJUSTMENTS BY REMOTE COMMANDER

Use the Remote Commander (RM-Y183, RM-Y184) to perform the circuit adjustments in this section.

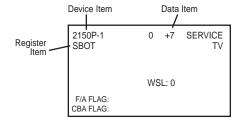
Test Equipment Required: 1. Pattern generator 2. Frequency counter 3. Digital multimeter 4. Audio oscillator

4-1. SETTING THE SERVICE ADJUSTMENT MODE

- 1. Standby mode (Power off).
- 2. Press the following buttons on the remote commander within one second of each other:

DISPLAY → Channel 5 → Sound Volume + → Power

SERVICE ADJUSTMENT MODE VIEW



READING THE MEMORY

- 1. Enter into service mode.
- 2. Press on the remote commander.
- 3. Press ENTER to read memory.

ADJUSTING THE PICTURE

- 1. Enter into service mode
- 2. Press 2 or 5 on the remote to select the device item.
- 3. Press 1 or 4 on the remote to select an item.
- 4. Press 3 or 6 on the remote to change the data.
- 5. Press MUTING then ENTER to write into memory.

4-1.1 RESETTING THE DATA

Note: Be careful when using the remote! It will clear and re-initialize ALL NVM data including deflection adjustment data if not reset properly as follows:

RESETTING THE DEFLECTION NVM DATA

- 1. Enter into service mode.
- 2. Press $\overline{7}$, then $\overline{\text{MENU}}$, and then press $\overline{\text{ENTER}}$ on the remote.

RESETTING THE SYSTEM NVM DATA

- 1. Enter into service mode.
- 2. Press 7, then 9, and then press ENTER on the remote.

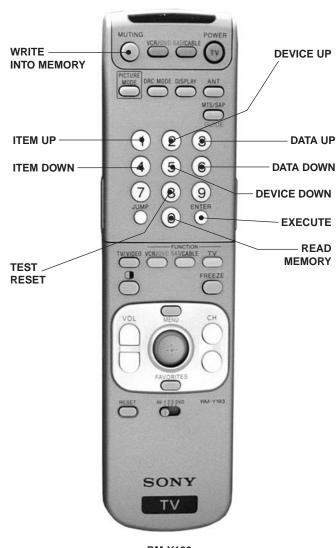
RESETTING THE SYSTEM NVM DATA

- 1. Enter into service mode.
- 2. Press 8 and then press ENTER on the remote.

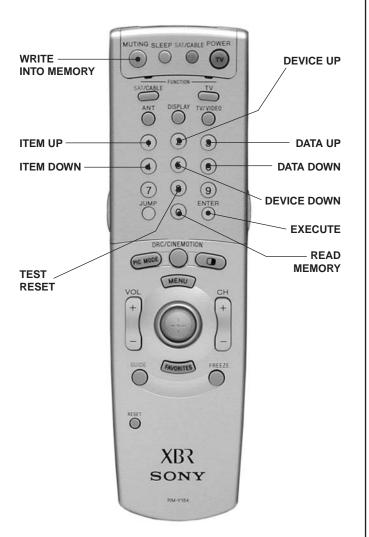
4-2. MEMORY WRITE CONFIRMATION METHOD

- 1. After adjustment, pull out the plug from the AC outlet, then replace the plug in the AC outlet again.
- 2. Turn the power switch ON and set to Service Mode.
- 3. Call the adjusted items again to confirm they were adjusted.

4-3. REMOTE ADJUSTMENT BUTTONS AND INDICATORS



RM-Y183 (KV-32HS20/36HS20/36HS20H ONLY)



RM-Y184 (KV-32XBR450/36XBR450/36XBR450H ONLY)

SERVICE DATA LISTS

	DX1A-2001* Service List Contents & Notes									
Category Number & Name		Device Name	Device Reference Number	Slave Address	Comment					
# 1	3D-COMB	mPD64082	IC3501 / BC-board	B8h (W) & B9h (R)	W&R: Write & Read					
# 2-1	CXA2103-1 (Main)	CXA2103Q	IC3048 (Main) / B-board	9Ah						
# 2-2	CXA2103-2 (Sub)	07/AZ 103Q	IC3110 (Sub) / B-board	9Eh						
# 3-1	CXA2150P-1									
# 3-2	CXA2150P-2	CXA2150AQ	IC201 / A-board	86h						
# 3-3	CXA2150P-3 CXA2150P-4									
		<u> </u>		1						
# 4-1	CXA2150D-1 CXA2150D-2	CXA2150AQ	IC201 / A-board	86h						
# 4-2	CXA2150D-2 CXA2150D-3	CAAZIJUAQ	10201 / A-boald	0011						
# 5	CXA2151	CXA2151Q	IC3001 / B-board	84h						
#6	D-CONV	CXA8070P	IC5513 / D-board	DEh						
#7	CXA2026	CXA2026AS	IC5511 / D-board	8Eh						
#8	AP	BH3868AFS	IC7001 / A-board	82h						
#9	TRUS	NJM2180M	IC4101 / S-board	2Eh	Controlled through CXA1315M (IC4103 / S-board / 48h)					
# 10	MID1	CXD9509AQ	IC3408 / B-board	2Eh	Controlled through MID-XA Micro (IC3090 / B-board / 64h)					
# 10	MID2	CXD9509AQ CXD9509AQ	IC3408 / B-board	2Eh	Controlled through MID-XA Micro (IC3090 / B-board / 64h)					
# 11	MID3	CXD9509AQ CXD9509AQ	IC3408 / B-board	2Eh	Controlled through MID-XA Micro (IC3090 / B-board / 64h)					
# 12	MID5	CXD9509AQ CXD9509AQ	IC3408 / B-board	2Eh	Controlled through MID-XA Micro (IC3090 / B-board / 64h)					
# 14	OSD	M306V2ME-153FP	IC701 / A-board	60h	DX1A-2001 System Micro {V1.0}					
# 15	SNNR	mPD64082 CXA2103Q	IC3501 / BC-board IC3048 (Main) / B-board	B8h (W) & B9h (R) 9Ah						
" 15	SININ	CXA2150Q	IC201 / A-board	86h						
# 16	ID1	CXD2085M	IC3603 / B-board	40h						
i i	0000110111	l	IC3602 (Main) / B-board	68h (Main)	00001/11/11/10/11/10					
# 17	CCD&VCHIP	CXP85840A-039Q	IC3601 (Sub) / B-board	6Ch (Sub)	CCD&Vchip Micro (V2.14)					
# 18	OP	M306V2ME-153FP	IC701 / A-board	60h	DX1A-2001 System Micro {V1.0}					
# 19	ID	M306V2ME-153FP	IC701 / A-board	60h	DX1A-2001 System Micro {V1.0}					
DX1A-2	001 System Micro &		SK), Software Version 1.0, IC							
Notes f	or Services	The system micro name	, software&patch versions, a	nd the status of NVM	I devices are displayed only when in the service catergory					
DX1A-2	001 MID-XA Micro	MB94918RPF-G-137-BN	ND (MASK), Software Versio	n 12/08/00, IC3090/E	3-board (Slave Address: 64h)					
DX1A-2	001 CCD&Vchip Micros	CXP85840A-039Q (MAS	SK), Software Version 2.14, I	C3602/B-board (Mai	n/Slave Address: 68h) & IC3601/B-board (Sub/Slave Address: 6					
Note: * This ser	DX1A-2001 CCD&Vchip Micros CXP85840A-039Q (MASK), Software Version 2.14, IC3602/B-board (Main/Slave Address: 68h) & IC3601/B-board (Sub/Slave Address: 6 location of the same in DX1A-2001 & 2000, as noted in the data sheets.									

DX1A-2001&2000 SERVICE LIST (#1): 3D-COMB / mPD64082 (Part-1/4)

Device Name: mPD64082GF { 3D-Comb Filter / NEC } / IC3501 (BC-board) / P/N: 8-759-594-44 (SB#: V7372)

Slave Address: B8h (Write Address) / B9h (Read Address)

Note: The same 3D-COMB service data is used for DX1A-2001&2000.

	Register & Name	Control Register Function & Link	Data Type	Data Range		Data Initial/Av (32V&36		SVideo SVideo CVideo (CV): CVideo 1~4 inputs SVideo (SV): SVideo 1~3 inputs C: Common data		
					UHF/VHF	& CVideo	SV	ideo	CVideo (CVV): CVideo1-4 inpute	
					Standard	Non-standard	Standard			
0	NRMD	Operation mode setting		0~3	0	1	3	3	Ovideo (OV). Ovideo i o iriputs	
1	YAPS	Y-output correction (V-aperture compensation & Y-peaking filtering)	С	0~3	3			<u>C</u> : Common data		
2	CLKS	System clock setting	С	0~3	1					
					UHF/VHF	& CVideo	SV	ideo		
					Standard	Non-standard	Standard			
3	NSDS	Selection for standard/non-satndard signal processing		0~3	0	0	0	0		
4	MSS	Selection for inter-frame/inter-line processing	С	0~3	0					
5	KILS	Killer processing selection	С	0~3	1					
6	CDL	C-signal phase with respect to the Y-signal (Fine adjustment at 70 ns/step)	С	0~7	3					
		NRMD Setting-based Control Table for DYCO, DYGA, DCCO, DCGA			NRMD = 0	NRMD = 1	NRMD = 2	NRMD = 3		
7	DYCO	DY detection coring level (Y motion detection coring)		0~15	2	2	2	2		
8	DYGA	DY detection gain (Y motion detection gain)		0~15	10	10	10	10		
9	DCCO	DC detection coring level (C motion detection coring)		0~15	5	5	5	5		
10	DCGA	DC detection gain (C motion detection gain)		0~15	5	5	5	5		
11		Frame recersive YNR nonlinear filter limit level	С	0~3	1			•		
12	CNRL	Frame recersive CNR nonlinear filter limit level	С	0~3	1					
					UHF/VHF	Video1~4	Video5&6			
13	VTRH	Hysteresis for Hsync non-standard signal detection (out-of-Hsync intra-field)		0~3	1	1	1			
14	VTRR	Sensitivity for Hsync non-standard signal detection (out-of-Hsync intra-field)		0~3	1	1	1			
15	LDSR	Sensitivity for frame non-standard signal detection (out-of-Hsync inter-frame)		0~3	2	2	2			
		VM&SNNR Setting-based Control Table for VAPG & VAPI			VAF	G1 Data Based	on MENU/VM Se	etting	This setting continues to	
لِبا		VAPG= VAPG1 - VAPG2			VM = Off	VM = Low	VM = Mid		the next page.	
16		V-aperture compensation gain		0~7	0	2	3	4	. •	
17	VAPI	V-aperture compensation convergence point		0~31	4	4	4		r 8 (36V) {Initial/CBA Data = 8}	
		SNNR Setting-based Control Table for YPFT & YHFG				SNNR = 0	SNNR = 1	SNNR Setting (-Offset) SNNR = 3	
18	YPFT	Y peaking filter (BPF) center frequency	1	0~3	0	0	0	0	0	
19	YPFG		+ -	0~15	7	0	1	2	3	
IJ	1113	T Peaking litter (DFT) gain		0-10		U	ı		ı J	

	DX1A-2001&2000 SERVICE LIST (#1): 3D-COMB / mPD64082 (Part-2/4)											
Register No & Name					Comment							
	VAPG2 Data Based on SNNR/Offset-setting											
	SNNR = 0	SNNR = 1	SNNR = 2	SNNR = 3								
#16 VAPG (cont	0	0	0	0								
Note: The same 3D-COMB service data is used for DX1A-2001&2000.												

	egister . & Name	Control Register Function & Link	Data Type	Data Range		Data Initial/Av (32V&36	verage Setting V CRTs)	l	Comment
İ		SNNR Setting-based Control Table for YHCO & YHCG			SNNR = 0	SNNR = 1	SNNR = 2	SNNR = 3	(Not SNNR Offset Data)
20	YHCO	Y output high frequency component coring		0~3	1	1	1	1	YHCO&YHCG settings are sent
21	YHCG	Y output high frequency component coring gain		0, 1	0	0	0	0	directly to 3D-Comb device.
22	HSSL	Hsync slice level	С	0~15	12	C: Common d	ata	•	
23	VSSL	Vsync slice level	С	0~15	8				
24	ADCL	ADC clock delay	С	0~3	3				
		NRMD Setting-based Control Table for D2GA			NRMD = 0	NRMD = 1	NRMD = 2	NRMD = 3	
25	D2GA	Moving detection gain		0~7	4	4	4	4	
26	KILR	Killer detection reference	C	0~15	3				
27	OP1	Option1: Selection of comb filter & recursive noise reduction types	С	0, 1	1				
Ш					UHF/VHF	CVideo1	SVideo1	T	his setting continues to
28	NR1	Noise reduction on/off		0, 1	0	0	1		the next page.
29	NR2	SNNR control on/off	С	0, 1	0				
30	WSL	Noise level detection data		0~255	1 Byte Data fr	Byte Data from Read Register WSL			
31	HPLL	H-PLL filter (Must be set to 1 when MN signal is input.)	С	0, 1	1				
32	BPLL	Burst PLL filter	С	0, 1	1				
33	FSCF	Burst extraction gain	С	0, 1	0				
34	PLLF	PLL loop gain	С	0, 1	1			•	
					UHF/VHF	Video1~4	Video5&6		Video1~4 & SVideo1~3 inputs
35	CC3N	Selection of a line-comb filter C separation filter characteris		0, 1	0	0	0	Video5&6: YF	PbPr-480i/480p/1080i inputs
36	HDP	Fine adjustment of the system H-phase	С	0~7	5				
37	BGPS	Internal burst gate start position {Gate Start Position from Hsync center = 0.25 x BGPS + 2	С	0~15	4				
38	BGPW	Internal burst gate width {Gate Width = 0.25 x BGPW + 0.5 (ms)}	С	0~15	10				
39	TEST	Test bit {0: Normal mode, 1: Test mode (forbidden setting)}	С	0, 1	0				
40	WSC	Amount of noise detection coring	С	0~3	1				
					UHF/VHF 8	& Video1~4	Video5&6		used for non-standard signals
41	LIND	DRC-M line-doubling setting for non-standard signals	Micro	0~63	(0	2	such as Play	Station signals.
42	PFGO	(YPFG offset at GR on) Not used for DX1A		0~7	3	(Not used f	or DX1A)	<u> </u>	
Not	e: The san	ne 3D-COMB service data is used for DX1A-2001&2000.							

DX1A-2001&2000 SERVICE LIST (#1): 3D-COMB / mPD64082 (Part-4/4)										
Register No & Name		Data Initial/Av (32V&36	rerage Setting V CRTs)		Comment					
	CVideo2 SVideo2 CVideo3 SVideo3		SVideo3							
#28 NR1 (cont.)) 0 1 0 1		1							
Note: The same 3D-0	Note: The same 3D-COMB service data is used for DX1A-2001&2000.									

DX1A-2001&2000 SERVICE LIST (#2-1): CXA2103-1 {Main}

Device Name: CXA2103Q { NTSC-YCT (Chroma Decoder) / SONY } / IC3048 (B-board) / P/N: 8-752-089-50 (SBorSD#: NA)

Slave Address: 9Ah { Main }

†		I						_			-		
Register No & Name	Control Register	Data	Data	Data li	nitial Setting		e Data]	Da		verage Setti	ing	Note	
No & Name	Function & Link	Type	Range		•	SV CRTs)		<u> </u>	•	6V CRTs)			
1 1					& Video		r-480i			Video1~3 In			
1 1				P&P-Left (M)-DRC	P&P-Left (M)-1080i	P&P-Left (M)-DRC	P&P-Left (M)-480i			<u>80i</u> : If P&P-Le signal from t			
0 YLEV	Y-Out gain		0~63	23	27*	28	31*			nt to MID/VD			
1 CLEV	Cb&Cr-Out gains		0~63	17	55*	32	31*	*: Settings		it to wild, v b	o iriput.		
1	ozoto. out game		0 00	UHF	/VHF		deo						
2 SCON	Sub contrast	Adj.	0~15	7	[7]	7	[7]	1					
3 SCOL	Sub color	Adj.	0~15	7	[7]	7	[7]	Adj.: Adjus		ısted data - 2) atana		
	Sub hue	Adj.	0~15	7 [Adj	2steps]	7 [Adj	-2steps]	[Auj2step	sj. The auju	isteu data - 2	steps		
5 YDLY	Y/C delay time		0~3	,)		0						
	SNNR Data-related Settings			UHF/VHF	CVideo	SVideo	YPbPr 480i	SNNR=0 (-offset)	SNNR=1 (-offset)	SNNR=2 (-offset)	SNNR=3 (-offset)		
6 SHAP	Sharpness		0~15	6	4	4	4	0	1	2	3		
7 SHF0	Sharpness f0 selector		0~3	0	0	0	0						
8 PREO	Sharpness pre/over-shoot ratio		0~3	3	0	0	0						
9 BPF0	Chroma band filter f0 setting		0~3	3	0	0	0	C\/idaa; C\	/idoo1 . 1 lp	nuto			
10 BPFQ	Chroma band filter Q setting		0~3	0	3	3	3		√ideo1~4 In Video1~3 Ir				
11 BPSW	Chroma band filter on/off		0, 1	1	0	0	0	O VIGCO.	vidcor o ii	iputo			
12 TRAP	Y bolck chroma trap filter on/off		0, 1	0	0	0	0						
13 LPF	YPbPr-Output LPF on/off		0, 1	0	0	0	0						
				UHF/VHF	Video	YPbPr 480i							
	AFC Loop Gain (PLL between Hsync & HVCO)		0, 1	1	0	0							
15 CDMD			0~3	3	3	3							
16 SSMD	H&Vsync slide level setting		0~3	0	0	0							
17 HMSK	Masking of macrovision signal on/off		0, 1	1	1	1							
18 HALI	H automatic adjustment on/off		0, 1	0	0	0							
19 PPHA	H TIM phase adjustment for video		0~15	7	7	7							
					& Video		Pr-480i						
				P&P-Left (M)-DRC	P&P-Left (M)-1080i	P&P-Left (M)-DRC	P&P-Left (M)-480i						
20 CBOF	Cb-Offset1 of Cb IN (Pin34)		0~(31)~63	31	31*	31	31*						
	Cb-Offset2 of EXT Cb (Pin38)		(- , -)		-	-		*: Settings					
21 CROF	Cr-Offset1 of Cr IN (Pin35) Cr-Offset2 of EXT Cr (Pin39)		0~(31)~63	31	31*	31	31*	(31): The center setting = 31					
C.	XA2150P-4/#13 UBLK Setting-related Controls for ATPD & DCTR	•			P&P &	Favorite			P&P &	Favorite		Single	
				UBLK = 0	UBLK = 1	UBLK = 2	UBLK = 3	UBLK = 4	UBLK = 5	UBLK = 6	UBLK = 7	UBLK = 0~7	
	Auto-pedestal Inflection Point		0~3	0	1	2	3	1	2	3	2	0	
23 DCTR	DC Transmission Ratio		0~3	0	1	1	1	2	2	2	3	0	

DX1A-2001&2000 SERVICE LIST (#2-2): CXA2103-2 {Sub}

Device Name: CXA2103Q { NTSC-YCT (Chroma Decoder) / SONY } / IC3110 (B-board) / P/N: 8-752-089-50 (SBorSD#: NA)

Slave Address: 9Eh { Sub }

+	egister	Control Register	Data	Data	Data li	nitial Settine	g & [Averag	e Datal	Da	ata Initial/A	verage Sett	ina	
No	& Name	Function & Link	Туре	Range			SV CRTs)				6V CRTs)	3	Note
					P&P-Right	P&P-Right					Video1~3 In P&P-Left is		
0	YLEV	Y-Out gain		0~63	(s) 23	(s)-drc 22					from the sul		
1	CLEV	Cb&Cr-Out gains		0~63	18	16			decoder is	switched to	DRC path.		
	<u> </u>	Obdor Out game		0 00		/VHF	Vie	deo					
2	SCON	Sub contrast	Adj.	0~15	7	[7]	7	[7]	1				
3	SCOL	Sub color	Adj.	0~15	7	[7]	7	[7]	Adj.: Adjust		sted data - 2) otono	
4	SHUE	Sub hue	Adj.	0~15	7 [Adj	-2steps]	7 [Adj.	-2steps]	[Auj2step	sj. The auju	sieu dala - 2	steps	
5	YDLY	Y/C delay time		0~3		0		0					
		SNNR Data-related Settings			UHF/VHF	CVideo	SVideo		SNNR=0 (-offset)	SNNR=1 (-offset)	SNNR=2 (-offset)	SNNR=3 (-offset)	
6	SHAP	Sharpness		0~15	6	4	4		0	1	2	3	
7	SHF0	Sharpness f0 selector		0~3	0	0	0						
8	PREO	Sharpness pre/over-shoot ratio		0~3	3	0	0						
9	BPF0	Chroma band filter f0 setting		0~3	0	0	0		0.00				
10	BPFQ	Chroma band filter Q setting		0~3	0	0	0			/ideo1~4 In Video1~3 In			
11	BPSW	Chroma band filter on/off		0, 1	0	0	0		Svideo. S	video i~3 iii	puis		
12	TRAP	Y bolck chroma trap filter on/off		0, 1	0	0	0						
13	LPF	YPbPr-Output LPF on/off		0, 1	0	0	0						
					UHF/VHF	Video							
14	AFCG	AFC Loop Gain		0, 1	1	0							
15		V countdown system mode selector		0~3	3	3							
16	SSMD	H&Vsync slide level setting		0~3	0	0							
17	HMSK	Masking of macrovision signal on/off		0, 1	1	1							
18		H automatic adjustment on/off		0, 1	0	0							
19	PPHA	H TIM phase adjustment for video		0~15	7	7							
						& CVideo		r-480i					
					P&P-Right (S)	P&P-Right (S)-DRC	P&P-Right (S)	P&P-Right (S)-DRC					
20	СВОГ	Cb-Offset1 of Cb IN (Pin34) Cb-Offset2 of EXT Cb (Pin38)		0~(31)~63	31	31	31*	31*	*: Settings	not used			
21	CROF	Cr-Offset1 of Cr IN (Pin35) Cr-Offset2 of EXT Cr (Pin39)		0~(31)~63	31	31	31*	31*	(31): The center setting = 31				
	СХ	A2150P-4/#13 UBLK Setting-related Controls for ATPD & DCTR					Favorite				Favorite		Single
		•		0.0	UBLK = 0	UBLK = 1	UBLK = 2	UBLK = 3	UBLK = 4	UBLK = 5	UBLK = 6	UBLK = 7	UBLK = 0~7
22		Auto-pedestal Inflection Point		0~3	0	1	2	3	1	2	3	2	0
23		DC Transmission Ratio		0~3	0	1	1	1	2	2	2	3	0
Note	: The sam	e CXA2103 service data (Main⋐) is used for DX1A-20018	§2000.										

DX1A-2001&2000 SERVICE LIST (#3-1): CXA2150P-1 {Picture Controls: P1}

Device Name: CXA2150AQ { CRT Driver / SONY } / IC201 (A-board) / P/N: 8-752-093-35 (SBorSD#: NA)

Slave Address: 86h

	Register o & Name	Control Register Function & Link	Data Type	Data Range		Data		ttings & V&36V CR		Data]		Comment
					UHF VHF	cv	sv	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	CV: CVideo1~4
0	SBOT	Offset for SBRT		0~(7)~15	7	7	7	7	7	7	7	SV:
1	YOF	Y_OFFSET: DC-offset for Y signal		0~(7)~15	0	0	0	0	0	0	0	SVideo1~3
2	CBOF	CB_OFFSET: DC-offset for Cb signal		0~(31)~63	31	31	31	33	30	31	13	(): Settings at
3	CROF	CR_OFFSET: DC-offset for Cr signal		0~(31)~63	31	31	31	42	36	31	23	center
4	SBRT	SUB_BRIGHT: Sub Bright	Adj.	0~63				24 [24]				Adi.:
5	RDRV	R_DRIVE: R output drive	C	0~63				41				Adjusted data
6	GDRV	G_DRIVE: G output drive	Adj.	0~63				36 [36]				<u>C</u> :
7	BDRV	B_DRIVE: B output drive	Adj.	0~63				33 [33]				Common data
8	RCUT	R_CUTOFF: R output cutoff	С	0~63				41				
9	GCUT	G_CUTOFF: G output cutoff	Adj.	0~63				11 [11]				Initial Setting
10	BCUT	B_CUTOFF: B output cutoff	Adj.	0~63				22 [22]				= [Avg. Data]
					Vi	vid	Star	ndard	Мо	vie	Pro	
11	WBSW	WB_SW: White balance offset on/off		0 1	()		0	1	1	0	
П''	MPOM	(Related to UTMP seetings)		0, 1	(Co	ool)	(Ne	utral)	(Wa	ırm)		
12	SBOF	Offset for SBRT		0~(63)~127	6	3	6	3	6	3	63	
13	RDOF	Offset for RDRV		0~(63)~127		3	6	3	63		63	
14	GDOF	Offset for GDRV		0~(63)~127		3	6	3	66)**	63	**· The section
15	BDOF	Offset for BDRV		0~(63)~127	6	3	6	3	76)**	63	**: The color temporature
16	RCOF	Offset for RCUT		0~(63)~127		3	6	3	63)**	63	offset data
17	GCOF	Offset for GCUT		0~(63)~127	6	3	6	3	66)**	63	onoot data
18	BCOF	Offset for BCUT		0~(63)~127	6	3	6	3	78)**)	63	

Note:

DX1A-2001&2000 SERVICE LIST (#3-2): CXA2150P-2 {Picture Controls: P2}

Device Name: CXA2150AQ { CRT Driver / SONY } / IC201 (A-board) / P/N: 8-752-093-35 (SBorSD#: NA)

Slave Address: 86h

	Register & Name	Control Register Function & Link	Data Type	Data Range		С	Data Initia (32)	al/Averag V&36V CF		js	Comment
0	ALBK	PIC_ON: RGB output including AKB reference pulse on/off (Setting = 0 for power on reset) G2 adjustment register setting	С	0, 1	1						
1	RGBS	R_ON/G_ON/B_ON: R/G/B outputs on/off (AKB reference pusle can not be turned on/off.) (0,1/0,1/0,1)	С	0~7	7						
2	BLKB	BLK_BTM: RGB output bottom limit level (Black Limit) (AKB reference pusle DC-voltage)	С	0~3	3						<u>C</u> :
3	LIML	PLIMIT_LEV: Threshold level for excessively high inputs (White Limit	С	0~3	0						Common data
4	PABL	P_ABL: DC-level in RGB output detection for PEAK ABL	С	0~15	15						
5	SABL	S_ABL: S_ABL gain	С	0~3	0						
6	AGNG	AGING_W/AGING_B: AGING_W/AGING_B modes on/off (Set luminance to 80/01IRE flat-field signal.)	О	0~3 (0,1/0,1)	0						
7	AKBO	AKBOFF: Automatic/Manual-Cutoff setting	С	0, 1	0						
					U/VI Vide	HF & o1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	Video1~4:
8	SYPH	SYNC_PHASE: Hsync delay with respect to Video (100%: H-period)		0~3	()	0	0	0	0	CVideo1~4 &
9	CLPH	CLP_PHASE: Internal clamp pulse phase (100%: H-period)		0~3	3	3	3	3	3	3	SVideo1~3
10	CLGA	CLP_GATE: Switch for the gated internal clamp pulse with Hsync input	ut	0, 1	()	0	0	0	0	
11	JAXS	JAXIS: Color axis switch		0, 1	()		•	•		
12	BLKO	BLKO: Blanking switch		0, 1	()		-			

Note:

DX1A-2001&2000 SERVICE LIST (#3-3): CXA2150P-3 {Picture Controls: P3} (Part-1/3)

Device Name: CXA2150AQ { CRT Driver / SONY } / IC201 (A-board) / P/N: 8-752-093-35 (SBorSD#: NA)

Slave Address: 86h

				_	I	Data Initi	al/Avera	ge Settin	ıgs (32V&	36V CRTs	i)	
1 1	Register	Control Register	Data	Data			Pictu	ıre Mode:				Comment
No	& Name	Function & Link	Туре	Range	UHF VHF	cv	sv	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	
0	SYSM	SYSTEM: Signal bandwidth setting		0~3	1	1	1	1	1	2	2	
1	UVML	VM_LEV: VM_OUT level	C	0~3	3							
2	VMMO	System Micro pin#40		0, 1	0	0	0	0	0	0	0	
3	VMCR	VM_COR: VM_OUT coring level		0~3	3	3	3	3	3	3	3	
4	VMLM	VM_LMT: VM_OUT limit level		0~3	3	3	3	3	3	3	3	These settings
5	VMF0	VM_F0: VM_f0		0~3	2	2	2	2	2	2	2	continue to
6	VMDL	VM_DLY: VM_OUT phase (defined by phase difference from R_OUT)	0~3	3	3	3	3	3	1	3	the next page.
7	SHOF	Offset for USHP = SHOF x 4		0~3	2	2	2	3	3	0	2	CV:
8	SHF0	SHP_F0: Sharpness circuit f0		0, 1	1	1	1	1	1	0	1	CVideo1~4
9	PROV	PRE/OVER: Y signal pre/over-shoot ratio		0~3	3	3	3	1	3	0	3	<u>SV</u> :
10	F1LV	SHP_F1: Sharpness for higher f0 (4.2/5.6 MHz @ NORMAL mode)		0~3	0	3	3	3	3	3	3	SVideo1~3
11	CDSP	SHP_CD: Sharpness in part of high color saturaion		0~3	3	3	3	3	3	3	3	
12	LTLV	LTI_LEV: Luminance transient improvement (LTI)		0~3	3	3	3	3	3	3	3	<u>C</u> : Common data
13	LTMD	LTI_MODE: LTI mode setting		0~3	0	0	0	0	0	0	1	Common data
14	CTLV	CTI_LEV: Chrominance transient improvement (CTI)		0~3	0	0	0	0	0	2	0	(): Settings at
15	CTMD	CTI_MODE: CTI mode setting		0~3	0	0	0	0	0	0	0	center
16	UBOF	Offset for UBRT (Picture clarity adjustment)		0~(7)~15	7	7	7	7	7	10	7	
17	UCOF	Offset for UCOL = UCOF x 2 (Picture clarity adjustment)		0~3	3	3	3	3	3	0	3	
18	UHOF	Offset for UHUE (Picture clarity adjustment)		0~3	0	0	0	0	0	0	0	
19	MIDE	MID enhancement setting		0~15	3	3	3	7	11			

Note:

DX1A-2001&2000 SERVICE LIST (#3-3): CXA2150P-3 {Picture Controls: P3} (Part-2/3)

5	Da	ta Initia	I/Avera	ge Settiı	ngs (32V	&36V CR	Ts)	Da	ta Initia	I/Avera	ge Settii	ngs (32V	&36V CR	Ts)	Da	ta Initia	I/Avera	ge Settir	ngs (32V	&36V CR	Ts)	
Register			Picture	Mode: S	tandard					Pictu	re Mode:	Movie					Pict	ure Mode	: Pro			Note
No & Name	UHF VHF	cv	sv	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	UHF VHF	cv	sv	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	UHF VHF	cv	sv	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	
#0 SYSM (cont.)	1	1	1	1	1	2	2	1	1	1	1	1	2	2	1	1	1	1	1	2	2	
#1 UVML (cont.)	3							0							0							
#2 VMMO (cont.)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
#3 VMCR (cont.)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
#4 VMLM (cont.)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
#5 VMF0 (cont.)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
#6 VMDL (cont.)	1	3	3	3	3	1	3	1	1	1	1	1	1	3	1	1	1	1	1	1	3	
#7 SHOF (cont.)	0	3	3	3	3	0	2	0	3	3	3	3	0	3	0	1	1	1	1	0	1	
#8 SHF0 (cont.)	0	1	1	1	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
#9 PROV (cont.)	3	3	3	1	3	0	3	3	3	3	1	3	0	3	3	3	3	1	3	0	3	See next
#10 F1LV (cont.)	0	3	3	3	3	3	3	0	0	0	0	0	0	3	0	0	0	0	0	0	3	page
#11 CDSP (cont.)	3	3	3	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	pago
#12 LTLV (cont.)	2	2	2	2	2	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
#13 LTMD (cont.)	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	
#14 CTLV (cont.)	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
#15 CTMD (cont.)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
#16 UBOF (cont.)	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
#17 UCOF (cont.)	3	3	3	3	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
#18 UHOF (cont.)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
#19 MIDE (cont.)	2	2	2	6	10			1	1	1	5	9			0	0	0	4	8			

Note:

The same CXA2150 service data are used for DX1A-2001&2000.

	DX1	A-2001	&2000 S	ERVICE	LIST (#3-3)	: CXA	2150P-3	{Picture Controls: P3} (Part-3/3)	
			Data Initia	I/Average S	ettings (32V&36V C	RTs)			
Register No & Name	SNNR=0 (Offset)	SNNR=1 (Offset)	SNNR=2 (Offset)	SNNR=3 (Offset)				Comment	
#1 UVML (cont.)	0	0	0	0					
#3 VMCR (cont.)	0	+ 1	+ 2	+ 3					
#10 F1LV (cont.)	0	- 1	- 2	- 3					
#11 CDSP (cont.)	0	0	0	0					
#12 LTLV (cont.)	0	0	0	0					
#14 CTLV (cont.)	0	0	0	0					
#19 MIDE (cont.)	0	0	0	0					

Note:

DX1A-2001&2000 SERVICE LIST (#3-4): CXA2150P-4 {Picture Controls: P4} (Part-1/4)

Device Name: CXA2150AQ { CRT Driver / SONY } / IC201 (A-board) / P/N: 8-752-093-35 (SBorSD#: NA) Slave Address: 86h CXD2085M { ID-1 Decoder / SONY } / IC3603 (B-board) / P/N: 8-752-395-13 (SD#: S98511B) Slave Address: 40h

	Register	Control Register Function & Link	Data Type	Data Range		D		al/Averag		gs		Comment
					Vi	vid	Stan	ndard	Мс	vie	Pro	
					32V	36V	32V	36V		32&36V		Settings for
0	UPIC	PICTURE: Picture		0~63	63	63	42	46	3		31	36V CRTs are used for
1	UBRT	BRIGHT: Brightness		0~63	25	22	28	26		18	31	initial
2	UCOL	COLOR: Color		0~63	34	38	33	33		3	31	settings.
3	UHUE	HUE: Hue		0~63	31	31	31	31	3	1	31	
		SNNR Setting-related Controls for USHP										This setting continues to
4	USHP	SHARPNESS: Sharpness		0~63	38	42	44	48	3	4	31	the next page.
5	UTMP	Color Temporature (0: Warm, 1: Neutral, 2: Cool)		0~2	2	2	1	1)	1	
6	UDCL	DCOL: Dynamic color setting		0~3	2	2	2	2	2	2	0	
								Vivid / St		/lovie		
						/VHF o1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	Р	&P	These settings continue to
7	AXIS	COL AXIS: Color matrix setting		0~3		3	3	3	3		3	the next page.
lĖ	7 17 11 0	OCE_7 WIG. Color Mathy Colling		0 0				ure Mode:				the flext page.
						/VHF	YPbPr	YPbPr	YPbPr	Р	&P	Video1~4:
l		GAMMA/GAMMA L: RGB output GAMMA correction setting (B ₇₋₆)		0~7	Vide	o1~4	480i	480p	1080i		<u></u>	CVideo1~4 &
8	UGAM			• .		5	5	5	5		5	SVideo1~3
l		GAMMA_L: Slight GAMMA correction on/off (B ₀)		(0~3/0,1) 0~7								
9	AGAM	GAMMA/GAMMA_L (Av Pro user control) Void Data		0~7 (0~3/0,1)								
		UGAM Setting-related Controls for GSBO, GCOO, GHUO			UGAM = 7	UGAM = 6	UGAM = 5	UGAM = 4	UGAM = 3	UGAM = 2	UGAM = 1	
10	GSBO	Offset for SBRT (8 types of GSBO data based on UGAM values)		0~3	0	0	0	0	0	0	0	
11	GCOO	Offset for UCOL		0~3	0	0	0	0	0	0	0	These settings
12	GHUO	Offset for UHUE		0~3	0	0	0	0	0	0	0	continue to
								ire Mode:			-	the next page.
						/VHF o1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	Р	&P	
13	UBLK	Item # 15~18 pack FI data controls		0~7	vide.	7	7	480p 7	7		7	
14	ABLK	(Av Pro user control) Void Data		0~7	0 (Voi	d data)			- '			
IH		UBLK Setting-related Controls for DCTR		<u> </u>	5 (101							
IH		DC TRAN: Y signal DC transmission		_							_	These settings
15	DCTR	(8 types of DCTR data based on UBLK values)		0~3		3	3	3	3		2	continue to
16	DPIC	DPIC LEV: Y signal AUTO PEDESTAL level		0~3		2	2	2	2		1	the next page.
17	DSBO	Offset for SBRT		0~(7)~15		 7	7	7	7		7	(): Seetings at
18	ABLM	ABL MODE: ABL mode		0~3		1	1	1	1		1	center

Note:

	DX1A-	-2001	£200 0) SER	VICE LIST	(#3-4): C	XA2′	150P	-4 {F	Picture C	ontrols: l	P4 _} (Part-2	/4)		
Register No & Name	D	ata Initia (32)	I/Averag V&36V CI	-	ngs	Da	ata Initia (32)	I/Avera /&36V C	-	ıgs	Da	ata Initia (32\	I/Averaç /&36V CI	-	ngs	Note
SNNR Setting	SNNR SNNR		SNNR													
(-Offset) #4 USHP (cont.)	0 1	3	= 3													
		Pict	ure Mode	: Pro												
	UHF/VHF	YPbPr	YPbPr	YPbPr	P&P											
#7 AXIS (Cont.)	Video1~4	480i 3	480p 3	1080i 3	3											
## 1240 (Collay	-		Mode: S				Pictu	re Mode:	Movie			Pictu	ure Mode	: Pro		
	U/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	U/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	U/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	
#8 UGAM (Cont.)	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	
#10 GSBO (cont.) #11 GCOO (cont.) #12 GHUO (cont.)	UGAM = 0 0 0 0															
			Mode: S					re Mode:					ure Mode			
	UHF/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	UHF/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	UHF/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	
#13 UBLK (Cont.)	4	4	4	4	4	1	1	1	1	1	0	0	0	0	0	
																╢
#15 DCTR (Cont.)	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	See
#16 DPIC (Cont.)	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	pages
#17 DSBO (Cont.) #18 ABLM (Cont.)	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Note: The same CXA2150 set	•	sed for D	X1A-20	<u> </u>	'	<u> </u>	1 0	U	U	U		<u> </u>	U	U	0	

	DX1	A-2001	&2000 S	ERVICE	E LIST (#	#3-4): (XA215	50P-4	{Picture Controls: P4} (Part-3/4)
Register No & Name			Da	ta Initial/Av (32V&36	erage Settir V CRTs)	ngs			Comment
	UBLK = 7	UBLK = 6	UBLK = 5	UBLK = 4	UBLK = 3	UBLK = 2	UBLK = 1	UBLK = 0	
#15 DCTR (Cont.)	3	2	2	2	1	1	1	1	
#16 DPIC (Cont.)	2	3	2	1	3	2	1	0	
#17 DSBO (Cont.)	7	7	7	7	7	7	7	7	
#18 ABLM (Cont.)	1	0	0	1	0	0	0	0	
Note: The same CXA2150 serv	vice data are	used for DX	1A-2001&20	000.					

		DX1A-2001&2000 SERVICE LIST (#3-4): CXA	215	0P-4 {Pi	cture Con	trols:	P4}	(Part-	4/4)	
	Register o & Name	Control Register Function & Link	Data Type	Data Range	D	ata Initia (32)	al/Averag V&36V CR	-	js	Comment
19	ABLT	ABL_TH: ABL currect detection Vth control		0~15	0					
					Full	Vco	mp1	Vco	mp2	F. II.
20	ABLC	Control of CXA2026 {0Ch DAC0} (*)		0~255	0		6	6		<u>Full</u> : — 480p/960i
21	EPOF	Offset for UPIC = EPOF x (UPIC/63) (for power save) Void Data		0~31					•	(4x3)
		ID-1 and P&P Modes								Vcomp1:
22	SPOF	Offset for UPIC = SPOF x (UPIC/64) Data Not Used		0~31	0 (Not used)					480p/960i
					UHF/VHF Video1~4	YPbPr 480i	YPbPr 480p	YPbPr 1080i	P&P	(16x9) Vcomp2:
23	SCON	SUB CONTRAST: SUB PICTURE		0~15	9	8	11	10	9	1080i
24	CLOF	Offset for UCOL		0~(7)~15	8	8	9	7	8	(16x9)
25	HUOF	Offset for UHUE		0~7~15	4	3	3	3	4	
		CXD2085 Service Controls								(): Settings at
26	IDSW	Switch for activating the selection in #27 DATA	С	0, 1	0					center
					Full	Vco	mp1	Vco	mp2	C: Common data
27	DATA	Selection of geometry-forced vertical compression modes	С	0~3	0		1	2	2	Common data
Not The		2150 service data are used for DX1A-2001&2000.								

DX1A-2001&2000 SERVICE LIST (#4-1): CXA2150D-1 {Deflection Controls: D1}

Device Name: CXA2150AQ { CRT Driver / SONY } / IC201 (A-board) / P/N: 8-752-093-35 (SBorSD#: NA)

Slave Address: 86h

	Register o & Name	Control Register Function & Link	Data Type	Data Range	Data Initial	Settings & [Ave (32V&36V CRTs)	rage Data]	Comment
					Full	Vcomp1	Vcomp2	Full: 480p/960i (4x3) display
0	VPOS	V_POSITION: Vertical position (V_DRV siganl DC-bias)	Adj.	0~(31)~63		26 [26]		Vcomp1: 480p/960i (16x9) display
1	VSIZ	V_SIZE: Vertical size (V_DRV signal gain)	Adj.	0~(31)~63		19 [19]		Vcomp2: 1080i (16x9) display
2	VLIN	V_LINEARITY: Vertical linearity (Gain for V_DRV signal secondary component)	Adj.	0~(7)~15		9 [9]		Adj.: Adjusted data
3	VSCO	S_CORRECTION: Vertical S-correction	Adj.	0~(7)~15		8 [8]		(): Settings at center
4	VCEN	VSAW0_DCH/VSAW0_DCL: Vertical center adjustment VSAW0_DCH: VSAW0 waveform DC component (high 2-bits) VSAW0_DCL: VSAW0 waveform DC component (low 4-bits)	Adj.	0~(31)~63		31 [31]		VCEN-L(Low bit) VCEN-H(High bit)
5	VPIN	VSAW0_AMP: Vertical PIN adjustment VSAW0 waveform SAW component amplitude	Adj.	0~(15)~31	15 [15]	15 [Co	opty1]	[Copy1]: Copy the adjusted data for Full mode.
6	NSCO	VSAW1_DC: Rotation	Adj.	0~(7)~15		7 [7]		Either 7 or 8 can be used as the average NSCO data.
7	HTPZ	VSAW1_AMP: Horizontal trapezoid	Adj.	0~(15)~31		15 [15]		(If both of them are not good,
8	ZOOM	ZOOM_SW: Zoom switch		0, 1	0	0		please feedback to / check with
9	APSW	ASP_SW: Aspect switch		0, 1	1	1	0	the DY attachment process.)
10	ASPT	V_ASPECT: Aspect ratio	Adj.	0~63	47	47	47	
11	SCRL	V_SCROLL: Vertical scroll	Adj.	0~(31)~63	31	32	32	
12	_	UP_VLIN: Upper vertical linearity		0~15	0 0			
13	LVLN	LO_VLIN: Lower vertical linearity		0~15	0	0		

Note:

DX1A-2001&2000 SERVICE LIST (#4-2): CXA2150D-2 {Deflection Controls: D2}

Device Name: CXA2150AQ { CRT Driver / SONY } / IC201 (A-board) / P/N: 8-752-093-35 (SBorSD#: NA)

Slave Address: 86h

	Register o & Name	Control Register Function & Link	Data Type	Data Range	Data Initial Settings & [Average Data] (32V&36V CRTs)			Comment
					Full	Vcomp1	Vcomp2	Full: 480p/960i (4x3) display
0	HCNT	HC_PARA_DC: Horizontal center	Adj.	0~(31)~63		31 [31]		Vcomp1: 480p/960i (16x9) display
1	HPOS	H_POSITION: Horizontal position	Adj.	0~(31)~63	3 [3		31 [Adj6steps]	<u>Vcomp2</u> : 1080i (16x9) display
2	HSIZ	H_SIZE: Horizontal size	Adj.	0~(31)~63	•	45 [45]		(): Settings at center
3	SLIN	MP_PARA_DC: Horizontal S-correction	Adj.	0~15		3 [3]		Adj.: Adjusted data
4	MPIN	MP_PARA_AMP: Horizontal middle pin		0~15		9 (32V) or 7 (36V)	[Adj6steps]: The adj. data for Vcomp2 mode	
5	PIN	PIN_AMP: Horizontal pin	Adj.	0~(31)~63		35 [35]		
6	UCP	UP_CPIN: Upper corner pin	Adj.	0~(31)~63	38 [38] 42 [42]			= The adj. data for Full/Vcomp1 modes - 6 steps
7	LCP	LO_CPIN: Lower corner pin	Adj.	0~(31)~63				
8	UXCG	UP_UCG: Upper extra corner pin gain		0~3		2 (32V) or 1 (36V)	Data (32Vor36V):
9	LXCG	LO_UCG: Lower extra corner pin gain		0~3		2		The data for 36V are used as the Initial & CBA data.
10	UXCP	UP_UCP: Upper extra corner pin position		0~3		2		
11	LXCP	LO_UCP: Lower extra corner pin postion		0~3	2			From the system micro (V 2.0), the deflection control-related initial settings are the same as their average data.
12	XCPP	UC_POL: Extra corner pin polarity		0, 1	0			
13	PPHA		Adj.	0~(31)~63	15 [15]			
14	VANG	AFC_ANGLE: AFC angle	Adj.	0~(31)~63	31 [31] 31 [31]			
15	LANG	HC_PARA_PHASE: Linearity angle	Adj.	0~(31)~63				
16	VBOW	AFC_BOW: AFC bow		0~(31)~63		31 [31]		
17	LBOW	HC_PARA_AMP: Linearity bow	Adj.	0~(31)~63		31 [31]		
18	CPY1	Copy Function 1: (Set CPY1=1, then press MUTE + Enter.) Copy all CXA2150D-2 data for Full mode to Vcomp1&2	Micro	0, 1		0		For engineering design use only

Note:

DX1A-2001&2000 SERVICE LIST (#4-3): CXA2150D-3 {Deflection Controls: D3}

Device Name: CXA2150AQ { CRT Driver / SONY } / IC201 (A-board) / P/N: 8-752-093-35 (SBorSD#: NA)

Slave Address: 86h

Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial/Average Settings (32V&36V CRTs)		Comment		
					Full	Vcomp1	Vcomp2	Full: 480p/960i (4x3) display	
0	HBLK	HBLK_SW: Horizontal blanking switch		0, 1		1		Vcomp1: 480p/960i (16x9) display	
1	LBLK	LEFT_BLK: Left blanking		0~63	4	15	50	<u>Vcomp2</u> : 1080i (16x9) display	
2	RBLK	RIGHT_BLK: Right blanking		0~63	2	24 2			
3	VBLK	VBLK_SW: Vertical blanking switch		0, 1	1	,	1		
4	TBLK	UP_BLK: Top blanking		0~(7)~15	1	8	12	(): Settings at center	
5	BBLK	LO BLK: Bottom blanking		0~(7)~15	0	13	13		
6	VCMP	V_COMP: Vertical compensation		0~15	0	0	0		
7	HCMP	H_COMP: Horizontal compensation		0~15	0	()		
8	ACMP	AFC_COMP: AFC compensation		0~7	0	()		
9	PCMP	PIN_COMP: Pin compensation		0~7	0	0 0			
10	AFCM	AFC_MODE: AFC loop gain		0~3		3	2		
11	VFRQ	V_FREQ: Vertical frequency		0~3	1				
12	VON	V_ON: Vertical drive on		0, 1		1			
13	JUMP	JMP_SW: Reference pulse jump swtich		0, 1	0	,	1		
14	VDJP	VDRV_SW: Vertical drive jump switch		0, 1	0	0	1		
15	VDST	RST_SW: Vertical drive start switch		0, 1	0	0	1		
16	EWDC	EW_DC: Pin DC level shift		0, 1	0	()		
17	AKBT	AKBTIM: AKB timing		0~31	20	20	10		

Note:

DX1A-2001&2000 SERVICE LIST (#5): CXA2151Q

Device Name: CXA2151Q { Component I/F & Sync Seperation / SONY } / IC3001 (B-board) / P/N: 8-752-093-84 (SD#: S00302B)

Slave Address: 84h

	Register lo & Name	Control Register Function & Link	Data Type	Data Range	Data Initial/Average Settings (32V&36V CRTs)		- 1	Comment
					480i (15.75 KHz)	480p (31.50 KHz)	1080i (33.75 KHz)	<u>Video5&6</u> :
0	MTRX	MAT_OUT: Selection of color matrix conversion types	Micro	0~3	0	0	1	YPbPr-480i/480p/1080i inputs Sub: 480i input from the sub-channel
1	GAIN	GAIN_SEL: Selection of output signals for SELYOUT, SELCBOUT, SELCROUT	С	0~3	0			Full: 480p/960i (4x3) display
2	CBGN	YGAIN, CBGAIN, CRGAIN: The gain control of SELYOUT, SELCBOUT, & SELCROUT	С	0~15	9			Vcomp1: 480p/960i (16x9) display Vcomp2: 1080i (16x9) display
3	VTC	V_TC: Setting of Vsync separation time constant	С	0~3	1			
4	HWID	H_WIDTH: Setting of the output pulsewidth of SELHOUT	С	0~3	1			C: Common data
					Video5	Video6	Sub	
5	HSEP	HSEP_SEL: Setting for the sync separation system		0, 1	0	0	0	
6	TEST	TEST: Test mode selection (for device tests)	С	0, 1	0			
7	FRGB	The forced RGB selection (for tests) {0: MAT OUT = MTRX (#0), 1: MAT OUT = MTRX (#3)}	С	0, 1	0			
					Full	Vcomp1	Vcomp2	
8	HMSK	Hsync masking in vertical retrace		0, 1		1	0	

Note:

DX1A-2001&2000 SERVICE LIST (#6): D-CONV / CXA8070

Device Name: CXA8070AP { DY-Convergence Control / SONY } / IC5513 (D-board) / P/N: 8-759-595-52 (SB#: V1718)

Slave Address: DEh

Register No & Name		Control Register Function & Link	Data Type	Data Range		Settings & [Av (32V&36V CRTs)		Comment
					Full	Vcomp1	Vcomp2	
0	SBHS	DC AMP3: DC shift	Adj.	0~63	31 [31]	31	[31]	Full: 480p/960i (4x3) display mode
1	YBWU	VCA9: Upper Y-bow	Adj.	0~63	31 [31]		[31]	Vcomp1: 480p/960i (16x9) display mode
2	YBWL	VCA10: Lower Y-bow	Adj.	0~63	31 [31]	31	[31]	Vcomp2: 1080i (16x9) display mode
3	RSAP	DC AMP2: Right H-AMP	Adj.	0~63	31 [31]	31	[31]	
4	RUBW	VCA5: Right upper bow	Adj.	0~63	31 [31]	31	[31]	Adj.: Adjusted data
5	RLBW	VCA6: Right lower bow	Adj.	0~63	31 [31]	31	[31]	
6	LSAP	DC AMP1: Left H-AMP	Adj.	0~63	31 [31]	31	[31]	From the system micro (V 2.0),
7	LUBW	VCA1: Left upper bow	Adj.	0~63	31 [31]	31	[31]	the deflection control-related initial settings are the same as their average data.
8	LLBW	VCA2: Left lower bow	Adj.	0~63	31 [31]	31	[31]	are the sume as their average data.
9	CADJ	DC AMP4: Offset adjustment (ADJ)	Adj.	0~63		48 [48]		
10	CPY2	Copy Function 2: (Set CPY2=1, then press MUTE + Enter.)	Micro	0, 1		0		For engineering design use only

Note:

DX1A-2001&2000 SERVICE LIST (#7): CXA2026AS

Device Name: CXA2026AS { DQP Control / SONY } / IC5511 (D-board) / P/N: 8-752-074-64 (SD#: S95610B)

Slave Address: 8Eh

	Register o & Name	Control Register Function & Link	Data Type	Data Range	Data Initia	Settings & [Ave (32V&36V CRTs)	erage Data]	Comment
					Full	Vcomp1	Vcomp2	Full: 480p/960i (4x3) display mode
0	DFON	SW0: DF on/off switch	С	0, 1	0			Vcomp1: 480p/960i (16x9) display mode
1	DQP	PWM: DQP phase	Adj.	0~63	23 [23]	23 [23]		Vcomp2: 1080i (16x9) display mode
2	DF	DAC1: DF phase	Adj.	0~63	25 [25]	25 [25]		<u>C</u> : Common data
3	DQPD	H.AMP: DQP dc-level	Adj.	0~63	34 [34]	34 [34]		Adj.: Adjusted data
4	QPDV	U.CBOW, L.CBOW: DQP dc-level vertical modulation		0~63	51	47		U.CBOW = QPDV + DVS
5	DVS	U.CBOW, L.CBOW: DQP dc-level tilt		0~(3)~7	0	0		L.CBOW = QPDV - DVS
6	QPDY	U.MBH,L.MBH: DQP dc-level at top & bottom areas		0~63	7	7		(): Settings at center
7	DQPA	DC SHIFT: DQP amplitude	Adj.	0~63	22 [27] (32V) or 13 [15] (36V)	or	or	Data (36V) are used as Initial/CBA data. From the system micro (V 2.0), most deflection control-related initial settings are the same as their average data.
8	QPAV	U.YBOW, LYBOW: DQP amplitude vertical modulation		0~63	38	34		U.YBOW = QPAV + AVS
9	AVS	U.YBOW, LYBOW: DQP amplitude tilt		0~7	3	3		L.YBOW = QPAV - AVS
10	NORM	SW1:		0, 1	0	0		
11	CPY3	Copy Function 3: (Set CPY3=1, then press MUTE + Enter.)	Micro	0, 1	0			For engineering design use only
12	200V	H.DUTY, H.TILT: 200V regulator adjustment	Adj.	0~63	31 [31]			

Note:

The same CXA2026 service data is used for DX1A-2001&2000.

DX1A-2001&2000 SERVICE LIST (#8): Audio Processing (AP) / BH3868AFS

Device Name: BH3868AFS { Audio Processor / ROHM } / IC7001 (A-board) / P/N: 8-759-678-92 (SBorSD#: NA)

Slave Address: 82h

Register No & Name	Control Register Function & Link	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)	Comment
0 SVOL	Volume: Offset for Volume		0~3	0	
1 SBAL	Balance: Offset for Balance		0~(3)~7	7	(): Settings at center
2 SBAS	Bass: Offset for Bass		0~(3)~7	7	
3 STRE	Treble: Offset for Treble		0~(3)~7	7	
4 BBLP	BBE lowpass filter		0~15	0	
5 BBHP	BBE highpass filter		0~15	2	
6 SREF	Surround effect		0~7	11	
7 AGC	Auto gain control		0, 1	0	
8 BBE	8 BBE BBE on/off 0, 1 1		1		

Note:

The same AP service data is used for DX1A-2001&2000.

DX1A-2001&2000 SERVICE LIST (#9): TruSurround (TRUS) / NJM2180

Device Name: NJM2180M { TruSurround 3D-Audio Processor / JRC } / IC4101 (S-board) / P/N: 8-759-686-15 (SB#: V9072)

Device Control: Controlled via CXA1315M (Audio Control D/A, IC4103/S-board, Slave Address: 48h) / P/N: 8-752-059-23 (SD#: S88Z45B)

L	Register lo & Name	Control Register Function & Link	Data Data Type Range		Data Initial/Average Setting (32V&36V CRTs)	Comment
0	TS	TruSurround effect selection		0~3	2	C: Common data
1	DMY1	Dummy data (No functions)	O	0~255	0	DMY1 is used to fulfil the minimum requirement of 2 control items in each service control category.

Note:

The same TRUS service data is used for DX1A-2001&2000.

DX1A-2001* SERVICE LIST (#10): MID1 (Common Data)

Device Name: CXD9509AQ { MID-XA / Fujitsu & SONY } / IC3408 (B-board) / P/N: 8-759-672-57 (SBorSD#: NA)

Slave Address: 2Eh { Controlled through MID-XA Micro (IC3090/B-board, Slave Address: 64h) / P/N: 6-800-050-01 (SB#: V4216) }

MID-XA Micro (MASK type): MB94918RPF-G-137-BND, MID-XA Software: Version 12/08/00, (P/N: 6-800-050-01)

	Register	Control Register Function & Link	Register Name (Software)	Data Type	Data Range		tial/Average V/36V/40V CF		Comment
Ħ		1 411011011 0 2111111	(community)	.,,,,,	- tunige	<u> </u>	MID Mode: A	ı	
0	DHPH	Horizontal phase of the active display are	d h phase	С	0~255	91			C: Common data
1	DVPH		d v phase	С	0~63		20		
2	DHAR		d_h_area	С	0~255		240		
3	DVAR	Vertical size of the active display area	d_v_area	С	0~255		135		
4	DHPW	Horizontal pulse width	d_h_pwidth	С	0~63		27		
5	DVPW	Vertical pulse width	d_v_pwidth	С	0~7		7		
6	DYCD	Delay of YC signal output	d_yc_delay	С	0~63		2		
7	DYSD	Delay of YS signal output	d_ys_delay	C	0~7		1		
						MID Mo	de: Signle &	Favorite	
						Single 480i&p	Single 1080i	Favorite	
8	MDHP	Horizontal position of the main picture	m_dsp_hpos		0~255	3	3	12	
9	MDVP	Vertical position of the main picture	m_dsp_vpos		0~255	32	8	14	
10	MDHS	Horizontal size of the main picture	m_dsp_hsiz		0~255	2:	30	158	
11	MDVS	Vertical size of the main picture	m_dsp_vsiz		0~255	120	135	106	
						MID M	ode: P&P & F	avorite	
12	MLHP	(Horizontal position of the multi pictures)			0~255		54		
13	MLVP	(Vertical position of the multi pictures)			0~255		31		
						MII	O Mode: Favo	rite	
14	SDHP	Horizontal position of the sub picture	s_dsp_hpos		0~255		172		
15	SDVP	Vertical position of the sub picture	s_dsp_vpos		0~255		14		
16	•		s_dsp_hsiz		0~255		61		
17	SDVS	Vertical size of the sub picture	s_dsp_vsiz		0~255	41			
						MID Mode: All (Single & P&P & Favorite)			
18	DPSW	Switch of display output PLL	dsp pll sw	С	0, 1	0			0: MUST be used in DX1A-2001, 1: Used in DX1A-2000
19	MDL0	Model selection 0 (0: 16x9, 1: 4x3)		С	0, 1		0		

Note:

* These MID1 settings are used for DX1A-2001 ONLY. The DPSW setting was changed from 1 in DX1A-2000 to 0 in DX1A-2001.

DX1A-2001&2000 SERVICE LIST (#11): MID2 (DRC-in Data)

Device Name: CXD9509AQ { MID-XA / Fujitsu & SONY } / IC3408 (B-board) / P/N: 8-759-672-57 (SBorSD#: NA)

Slave Address: 2Eh { Controlled through MID-XA Micro (IC3090/B-board, Slave Address: 64h) / P/N: 6-800-050-01 (SB#: V4216) }

MID-XA Micro (MASK type): MB94918RPF-G-137-BND, MID-XA Software: Version 12/08/00, (P/N: 6-800-050-01)

N	Register o & Name	Control Register Function & Link	Register Name (Software)	Data Type	Data Range				tial/Average 32V&36V CRT	•		
						MID Mod	e: Single	MID M	ode: P&P & F	MID Mod	e: Freeze	
						YC 480i	YPbPr 480i	YC 480i	YPbPr 480i	YC 480i-(R)	YC 480i	YPbPr 480i
0	DRHP	Horizontal position of the active display area (DRC-in	drc_hactv_pos		0~255	120	116	131	129	137	138	136
1	DRHS	Hsize of the active display area (DRC-in)	drc_hactv_siz		0~255	174	174	167	167	168	165	165
2	DRVP	Vposition of the active display area (DRC-in)	drc_vactv_pos		0~63	38	38	53	53	53	53	53
3	DRVS	Vertical size of the active display area (DRC-in)	drc_vactv_siz		0~255	120	120	112	112	112	112	112

Note:

The same MID2 service data is used for DX1A-2001&2000.

DX1A-2001&2000 SERVICE LIST (#12): MID3 (VDO-in Data) (Part-1/2)

Device Name: CXD9509AQ { MID-XA / Fujitsu & SONY } / IC3408 (B-board) / P/N: 8-759-672-57 (SBorSD#: NA)

Slave Address: 2Eh { Controlled through MID-XA Micro (IC3090/B-board, Slave Address: 64h) / P/N: 6-800-050-01 (SB#: V4216) }

MID-XA Micro (MASK type): MB94918RPF-G-137-BND, MID-XA Software: Version 12/08/00, (P/N: 6-800-050-01)

	Register o & Name	Control Register Register Name Data Data Initial/Average Setting Function & Link (Software) Type Range (32V&36V CRTs)								Comment
							MID Mod	e: Single		
							YPbPr 480P		Dummy 480i	Dummy-480i settings are used for No Signal cases.
0	VDHP	Horizontal position of the active display area (VDO-in)	vdo_hactv_pos		0~255		122		179	ioi ivo oigilai cases.
1	VDHS	Horizontal pixel size of the active display area (VDO-in)	vdo_hactv_pos		0~255		159		199	These settings continue to the
2	VDVE	Vertical even position of the active display area (VDO-in)	vdo_vactv_evn		0~63		39		24	next page.
3	VDVS	Vertical line size of the active display area (VDO-in)	vdo_vactv_pos		0~255		129		56	
						YC 480i	YPbPr 480P	YPbPr 1080i	Dummy 480i	
4	VDVO	Vertical odd position of the active display area (VDO-in)	vdo_vactv_odd		0~3	0	0	0	0	
5	VCPO	Clamp pulse output timing (VDO-in)	vdo_clp_pos		0~255	95	70	40	90	
6	VCWD	Clamp pulse width (VDO-in)	vdo_clp_wdt		0~7	3	3	3	3	
7	VYCD	Analog input YC delay (VDO-in)	vdo_yc_delay		0~63	0	0	0	0	
							YPbPr 480P	YPbPr 1080i		
8	VSTP	PD stop line count of external PLL (VDO-in)	vdo_pll_stop		0~255		119	160		
9	VSTT	PD start line count of external PLL (VDO-in)	vdo_pll_strt		0~15		7	0		
						(:	MID Mo Single & P&			
10	VHSC	Horizontal sync cycle (VDO-in)	vdo_hsync_cyc		0~255		13	30		

Note:

The same MID3 service data is used for DX1A-2001&2000.

		D	(1A-20	01&200	0 SER\	/ICE L	IST (#1	2): MID3 (VDO-in Data) (Part-2/2)
Register No & Name			al Setting V CRTs)			Initial Se	•	Comment
	N	IID Mode: P	&P / Favori	te	MID	Mode: FRE	EZE	
	YC 480i	YPbPr 480P	YPbPr 1080i	Dummy 480i	YPbPr 480P	YPbPr 1080i	Dummy 480i	Dummy-480i settings are used for No Signal cases.
#0 VDHP (cont.)	197	127	91	179	131	98	179	
#1 VDHS (cont.)	219	154	151	199	153	149	199	
#2 VDVE (cont.)	24	53	37	24	53	37	24	
#3 VDVS (cont.)	56	112	126	56	112	126	56	

Note:

The same MID3 service data is used for DX1A-2001&2000.

DX1A-2001&2000 SERVICE LIST (#13): MID5 (Picture Data: MIDE) (Part-1/4)

Device Name: CXD9509AQ { MID-XA / Fujitsu & SONY } / IC3408 (B-board) / P/N: 8-759-672-57 (SBorSD#: NA)

Slave Address: 2Eh { Controlled through MID-XA Micro (IC3090/B-board, Slave Address: 64h) / P/N: 6-800-050-01 (SB#: V4216) }

MID-XA Micro (MASK type): MB94918RPF-G-137-BND, MID-XA Software: Version 12/08/00, (P/N: 6-800-050-01)

	Register o & Name	Control Register Function & Link	ting	Dat		verage Set 6V CRTs)	ting						
		Settings for P&P (Main)				UHF/VHF	& CVideo			YPbPr-4	80i (DVD)		
		Settings for F&F (Main)			Pro	Movie	Standard	Vivid	Pro	Movie	Standard	Vivid	
0	POP	Selection of service data tables (Table #: 0~15)		0~15	0	1	2	3	4	5	6	7	
1	MHLY	Y coefficient code of Horizontal LPF (M)	m_hlpf_ycoef	0~3	1	1	1	1	1	1	1	1	
2	MHLC	C coefficient code of Horizontal LPF (M)	m_hlpf_ccoef	0~3	3	3	3	3	3	3	3	3	
3	MVLY	Y coefficient code of Vertical LPF (M)	m_vlpf_ycoef	0~3	0	0	0	0	0	0	0	0	
4	MVLC	C coefficient code of Vertical LPF (M)	m_vlpf_ccoef	0~3	0	0	0	0	0	0	0	0	
5	MHYR	Y coreing code of horizontal enhancement (M)	m_henh_ycore	0~3	0	0	0	0	0	0	0	0	
6	MHYL	Y cliping code of horizontal enhancement (M)	m_henh_yclip	0~3	1	1	1	1	1	1	1	1]
7	MHYE	Y level code of horizontal enhancement (M)	m_henh_yenh	0~7	4	0	0	0	3	0	0	0	See the
8	MHYO	Y coefficient code of horizontal enhancement (M	m_henh_ycof	0, 1	1	1	1	1	1	1	1	1	next
9	MHCR	C coreing code of horizontal enhancement (M)	m_henh_ccore	0~3	0	0	0	0	0	0	0	0	page.
10	MHCL	C cliping code of horizontal enhancement (M)	m_henh_cclip	0~3	1	1	1	1	1	1	1	1	
11	MHCE	C level code of horizontal enhancement (M)	m_henh_cenh	0~7	0	0	0	0	0	0	0	0	
12	MHCO	C coefficient code of horizontal enhancement (M	m_henh_ccof	0, 1	1	1	1	1	1	1	1	1	
13	MVYR	Y coreing code of vertical enhancement (M)	m_venh_ycore	0~3	0	0	0	0	0	0	2	2	
14	MVYL	Y cliping code of vertical enhancement (M)	m_venh_yclip	0~3	1	1	1	1	1	1	1	1	
15	MVYE	Y level code of vertical enhancement (M)	m_venh_yenh	0~7	0	0	0	0	0	0	2	5	
16	MVCR	C coreing code of vertical enhancement (M)	m_venh_ccore	0~3	0	0	0	0	0	0	0	0	
17	MVCL	C cliping code of vertical enhancement (M)	m_venh_cclip	0~3	1	1	1	1	1	1	1	1	
18	MVCE	C level code of vertical enhancement (M)	m_venh_cenh	0~7	0	0	0	0	0	0	0	0	

Note:

The same MID5 service data is used for DX1A-2001&2000.

DX1A-2001&2000 SERVICE LIST (#13): MID5 (Picture Data: MIDE) (Part-2/4)

Register No & Name	Dat		verage Set SV CRTs)	ting	Dat		verage Set	ting	Comment
		YPbP	r-480p			YPbP	r-1080i		
	Pro	Movie	Standard	Vivid	Pro	Movie	Standard	Vivid	
#0 POP (cont.)	8	9	10	11	12	13	14	15	
#1 MHLY (cont.)	1	1	1	1	1	1	1	1	
#2 MHLC (cont.)	3	3	3	3	3	3	3	3	
#3 MVLY (cont.)	0	0	0	0	0	0	0	0	
#4 MVLC (cont.)	0	0	0	0	0	0	0	0	
#5 MHYR (cont.)	0	0	0	0	0	0	0	0	
#6 MHYL (cont.)	1	1	1	1	1	1	1	1	
#7 MHYE (cont.)	4	0	0	0	4	0	0	0	
#8 MHYO (cont.)	1	1	1	1	1	1	1	1	
#9 MHCR (cont.)	0	0	0	0	0	0	0	0	
#10 MHCL (cont.)	1	1	1	1	1	1	1	1	
#11 MHCE (cont.)	0	0	0	0	0	0	0	0	
#12 MHCO (cont.)	1	1	1	1	1	1	1	1	
#13 MVYR (cont.)	0	0	2	2	0	0	0	0	
#14 MVYL (cont.)	1	1	1	1	1	1	1	1	
#15 MVYE (cont.)	0	0	2	5	0	0	0	0	
#16 MVCR (cont.)	0	0	0	0	0	0	0	0	
#17 MVCL (cont.)	1	1	1	1	1	1	1	1	
#18 MVCE (cont.)	0	0	0	0	0	0	0	0	

Note:

The same MID5 service data are used for DX1A-2001&2000.

	Register o.&Name										ting			
		Cattings for DSD (Cub)					UHF/V	HF & CV			YPbPr-4	80i (DVD)		
		Settings for P&P (Sub)				Pro	Movie	Standard	Vivid	Pro	Movie	Standard	Vivid	ill
0	POP	Selection of service data tables (Table #: 0~15)			0~15	0	1	2	3	4	5	6	7	
19	SHLY	Y coefficient code of Horizontal LPF (S)	s_hlpf_ycoef		0~7	0	0	0	0	0	0	0	0	i
20	SHLC	C coefficient code of Horizontal LPF (S)	s_hlpf_ccoef		0~7	0	0	0	0	0	0	0	0	i
21	SVLY	Y coefficient code of Vertical LPF (S)	s_vlpf_ycoef		0~7	0	0	0	0	0	0	0	0	i
22	SVLC	C coefficient code of Vertical LPF (S)	s_vlpf_ccoef		0~7	0	0	0	0	0	0	0	0	il II
23	SHYR	Y coreing code of horizontal enhancement (S)	s_henh_ycore		0~3	0	0	0	0	0	0	0	0	il II
24	SHYL	Y cliping code of horizontal enhancement (S)	s_henh_yclip		0~3	0	0	0	0	0	0	0	0	
25	SHYE	Y level code of horizontal enhancement (S)	s_henh_yenh		0~7	0	0	0	0	0	0	0	0	See
26	SHYO	Y coefficient code of horizontal enhancement (S	s_henh_ycof		0, 1	0	0	0	0	0	0	0	0	the next
27	SHCR	C coreing code of horizontal enhancement (S)	s_henh_ccore		0~3	0	0	0	0	0	0	0	0	page.
28	SHCL	C cliping code of horizontal enhancement (S)	s_henh_cclip		0~3	0	0	0	0	0	0	0	0	
29	SHCE	C level code of horizontal enhancement (S)	s_henh_cenh		0~7	0	0	0	0	0	0	0	0	i
30	SHCO	C coefficient code of horizontal enhancement (S	s_henh_ccof		0, 1	0	0	0	0	0	0	0	0	i
31	SVYR	Y coreing code of vertical enhancement (S)	s_venh_ycore		0~3	0	0	0	0	0	0	0	0	i
32	SVYL	Y cliping code of vertical enhancement (S)	s_venh_yclip		0~3	0	0	0	0	0	0	0	0	
33	SVYE	Y level code of vertical enhancement (S)	s_venh_yenh		0~7	0	0	0	0	0	0	0	0	i I I I I
34	SVCR	C coreing code of vertical enhancement (S)	s_venh_ccore		0~3	0	0	0	0	0	0	0	0	
35	SVCL	C cliping code of vertical enhancement (S)	s_venh_cclip		0~3	0	0	0	0	0	0	0	0	
36	SVCE	C level code of vertical enhancement (S)	s_venh_cenh		0~7	0	0	0	0	0	0	0	0	ШЩ

Note:

The same MID5 service data is used for DX1A-2001&2000.

DX1A-2001&2000 SERVICE LIST (#13): MID5 (Picture Data: MIDE) (Part-4/4)

Register No.&Name	Dat		verage Set 6V CRTs)	ting	Dat		verage Set SV CRTs)	ting	Comment
		YPbP	r-480p			YPbP	r-1080i		
	Pro	Movie	Standard	Vivid	Pro	Movie	Standard	Vivid	
#0 POP (cont.)	8	9	10	11	12	13	14	15	
#19 SHLY (cont.)	0	0	0	0	0	0	0	0	
#20 SHLC (cont.)	0	0	0	0	0	0	0	0	
#21 SVLY (cont.)	0	0	0	0	0	0	0	0	
#22 SVLC (cont.)	0	0	0	0	0	0	0	0	
#23 SHYR (cont.)	0	0	0	0	0	0	0	0	
#24 SHYL (cont.)	0	0	0	0	0	0	0	0	
#25 SHYE (cont.)	0	0	0	0	0	0	0	0	
#26 SHYO (cont.)	0	0	0	0	0	0	0	0	
#27 SHCR (cont.)	0	0	0	0	0	0	0	0	
#28 SHCL (cont.)	0	0	0	0	0	0	0	0	
#29 SHCE (cont.)	0	0	0	0	0	0	0	0	
#30 SHCO (cont.)	0	0	0	0	0	0	0	0	
#31 SVYR (cont.)	0	0	0	0	0	0	0	0	
#32 SVYL (cont.)	0	0	0	0	0	0	0	0	
#33 SVYE (cont.)	0	0	0	0	0	0	0	0	
#34 SVCR (cont.)	0	0	0	0	0	0	0	0	
#35 SVCL (cont.)	0	0	0	0	0	0	0	0	
#36 SVCE (cont.)	0	0	0	0	0	0	0	0	

Note:

The same MID5 service data are used for DX1A-2001&2000.

DX1A-2001* SERVICE LIST (#14): On-Screen Display (OSD)

Device Name: M306V2ME-153FP (V1.0) { System Micro (MASK type) / Mitsubishi } / IC701 (A-board)

Slave Address: 60h

System Micro (MASK type): M306V2ME-153FP, Sys-Software: Version 1.0, P/N: 6-800-051-01 (SB#: V9091)

H				·	,			
Register No & Name	Control Register Function & Link		Data Range	Data Initial/Average Setting (32V&36V CRTs)	Comment			
0 HPOS	OSD horizontal position	С	0~255	23	C: Common data			
1 HPOF	Horizontal position for Favorite mode	С	0~255	33				
2 VPOS	OSD vertical position	С	0~255	5				
3 VPOT	Vertical position for P&P (Twin) mode	С	0~255	32				

Note:

* This OSD settings are used for DX1A-2001 ONLY. (DX1A-2000 uses two OSD settings based on two versions of system micros.)

DX1A-2001&2000 SERVICE LIST (#15): SNNR

Related Control Devices:

mPD64082 { 3D-Comb / NEC } / IC3501 (BC-board) / Slave Address: B8h

CXA2103Q { Chroma Decoder / SONY } / IC3048 (B-board) / Slave Address: 9Ah (Main)

CXA2150Q { CRT Driver / SONY } / IC201 (A-board) / Slave Address: 86h

	Register o & Name	Control Register Function & Link	Data Type	Data Range	Data Initial/Average Setting 32V&36V CRTs				Comment
0	SNNR	SNNR data setting		0~3	0				
1	SNFX	Selection of SNNR data settings; 0: Set SNNR automatically according to WSLT value (read data)		0, 1	0				C: Comon data
							hrethold Rang		
2	WSLT	Noise level detection data thretholds for SNNR data (read data	a)	0~255	0~30	31~62		127~255	
		SNNR data used as the (-) offset settings			SNN	•	ased on WSL et Data)	Data	
		SNNR = 0/1/2/3 @ WSLT £ 0/31/63/127, respectively		0~3	0	1	2	3	
3	CPFG	Related to 3D-COMB (mPD64082) / #19 YPFG settings			0	1	2	3	
4	CPFT	Related to 3D-COMB (mPD64082) / #18 YPFT settings			0	0	0	0	
		SNNR data used as the direct settings							
5	CCOR	Related to 3D-COMB (mPD64082) / #20 YHCO settings			0	1	1	1	
6	CHCG	Related to 3D-COMB (mPD64082) / #21 YHCG settings			1	1	1	1	
		SNNR data used as the (-) offset settings							
7	CAPG	Related to 3D-COMB (mPD64082) / #16 VAPG settings			0	0	0	0	
8	3SHP	Related to CXA2103 / #6 SHAP settings			0	1	2	3	
9	MIDD	Related to CXA2150P-3 / #19 MIDE settings			0	1	2	3	
10	5SHP	Related to CXA2150P-4 / #4 USHP settings			0	1	3	4	
11	5YF1	Related to CXA2150P-3 / #10 F1LV settings			0	1	2	3	
12	5CDS	Related to CXA2150P-3 / #11 CDSP settings			0	0	0	0	
13	5LTI	Related to CXA2150P-3 / #12 LTLV settings			0	0	0	0	
14	5CTI	Related to CXA2150P-3 / #14 CTLV settings			0	0	0	0	
15	5VML	Related to CXA2150P-3 / #1 UVML settings			0	0	0	0	
		SNNR data used as the (+) offset settings			SNN	INR Settings Based on WSL Data (+ Offset Data)		Data	
16	5VMC	Related to CXA2150P-3 / #3 VMCR settings			0	+ 1	+ 2	+ 3	

Note:

The same SNNR service data is used for DX1A-2001&2000.

Please refer to the part numbers and SBorSD numbers given in the service list for these devices.

DX1A-2001&2000 SERVICE LIST (#16): ID-1 Detection (ID1)

Device Name: CXD2085M { ID-1 Decoder / SONY } / IC3603 (B-board) / P/N: 8-752-395-13 (SD#: S98511B)

Slave Address: 40h

Register No & Name		Control Register Function & Link	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)	Comment	
0	I XJGL	XJGLK: Setting for memorizing or not the ID-1 detection status	С	0, 1	0	C: Common data	
1	LNJ1: Setting for the multi/single-line ID-1 detection		С	0, 1	0		

Note:

The same ID1 service data are used for DX1A-2001&2000.

Other servcie controls related to CXD2085 (IDSW & DATA) are lised in Service List (CXA2150P-4) for easier engineering adjustment.

DX1A-2001&2000 SERVICE LIST (#17): Closed Caption Display & Parental Control (CCD&VCHIP)

Device Name: CXP85840A-039Q { CCD&Vchip Micro (MASK type) / SONY } / IC3602 (Main) & IC3601 (Sub) (B-board) / P/N: 8-752-916-40 (SD#: S97739B)

Slave Address: 68h (Main) & 6Ch (Sub) CCD&Vchip Micro Software: Version 2.14

	Register o & Name	Control Register Function & Link	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)	Comment
0	HPRM	Horizontal position of CCD (Main)		0~255	46	<u>C</u> : Common data
1	HPRS	Horizontal position of CCD (Sub)		0~255	46	
2	RND	OSD rounding control		0, 1	1	
3	CCDI	Interuption cointrol		0~7	3	
4	CRIP	CRI count & parity count	С	0~7	4	
5	CRIT	Charge/Discharge timing control for slice voltage level	C	0, 1	0	0: MASK-type micro, 1: OTP-type micro
6	CHMK	Horizontal mask width	C	0~63	42	
7	FPOL	Field polarity selection	С	0, 1	1	
8	LANG		C	0~3	0	
9	DATA	Switch for CCD service/test data		0, 1	0	
10	VCHIP	Selection of Vchip controls	C	0, 1	0	

Note:

The same CCD&VCHIP service data is used for DX1A-2001&2000.

DX1A-2001&2000 SERVICE LIST (#18): OPTIONS (OP)

Device Name: M306V2ME-153FP (V1.0) { System Micro (MASK type) / Mitsubishi } / IC701 (A-board)

Slave Address: 60h

System Micro (MASK type): M306V2ME-153FP, Sys-Software: Version 1.0, P/N: 6-800-051-01 (SB#: V9091)

Register Control Register No & Name Function & Link		S S	Data Type	Data Range	Data Initial/Average Setting (32V&36V CRTs)	Comment
0	DLY1	DLY1 AC-RLY to MAIN-RLY timing = DLY1 x 50 ms		0~15	4	<u>C</u> : Common data
1	DLY2	LY2 Power-On Mute timing = DLY2 x 50 ms		0~31	12	
2	DLY3	DGC-RLY to MAIN-RLY timing = DLY3 x 50 ms	С	0~15	7	
3	RAMW	RAM monitor on/off	С	0, 1	Ô	

Note:

The same OP service data is used for DX1A-2001&2000.

DX1A-2001* SERVICE LIST (#19): IDENTIFICATION (ID)

Device Name: M306V2ME-153FP (V1.0) { System Micro (MASK type) / Mitsubishi } / IC701 (A-board)

Slave Address: 60h

System Micro (MASK type): M306V2ME-153FP, Sys-Software: Version 1.0, P/N: 6-800-051-01 (SB#: V9091)

	Register & Name	Control Register Function & Link	Data Type	Data Range		Initial/Average Se (32V/36V/40V CRTs)	•	Comment
		Shipping Destination-related Settings			KV-32HS20 KV-36HS20 KV-32HS20H	KV-32XBR450 KV-36XBR450 KV-36XBR450H	KV-32XBR450C KV-36XBR450C	
0	ID0	Selection of OSD languages & color syster	ทร	0~255	89	89	89	
1	ID1	Selection of composite & s-video inputs		0~255	127	127	127	
2	ID2	Selection of audio-related controls		0~255	239	255	255	
3	ID3	Selection of basic system settings		0~255	98	106	90	
4	ID4	Selection of basic system settings		0~255	203	203	203	
5	ID5	Selection of advanced system settings		0~255	177	177	177	
6	ID6	Selection of sub picture-related settings		0~255	54	54	54	
7	ID7	Selection of some reserved settings		0~255	24	24	24	

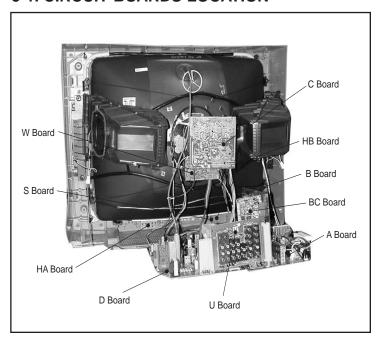
Note:

The system micro name, software&patch versions, and the status of NVM devices are displayed only when in this service catergory (#19): ID.

^{*} These ID settings are used for DX1A-2001 ONLY. (DX1A-2000 uses different ID settings.)

SECTION 5: DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION



5-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

All capacitors are in μF unless otherwise noted. pF : $\mu \mu F$ 50WV or less are not indicated except for electrolytics and tantalums.

All electrolytics are in 50V unless otherwise specified.

All resistors are in ohms. K = 1000, M = 1000K.

Indication of resistance, which does not have one for rating electrical power, is as follows: Pitch : 5mm

Rating electrical power: 1/4 W

 $^{1}/_{_{4}}W$ in resistance, $^{1}/_{_{10}}W$ and $^{1}/_{_{8}}W$ in chip resistance.

: nonflammable resistor.

: fusible resistor.

 Δ : internal component.

: panel designation and adjustment for repair.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

Readings are taken with a color-bar signal input.

Readings are taken with a 10M digital multimeter.

Voltages are DC with respect to ground unless otherwise noted.

Voltage variations may be noted due to normal production tolerances.

All voltages are in V.

S: Measurement impossibillity.

___: B+line.

--- B-line. (Actual measured value may be different).

: signal path. (RF)

Circled numbers are waveform references.

The components identified by shading and $\hat{\perp}$ symbol are critical for safety. Replace only with part number specified.

The symbol indicates a fast operating fuse and is displayed on the component side of the board. Replace only with fuse of the same rating as marked.

Les composants identifies par un trame et une marque $rianline{\triangle}$ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

Le symbole indique une fusible a action rapide. Doit etre remplace par une fusible de meme yaleur, comme maque.

The components identified by \blacksquare in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be necessary, replace only with the value originally used (Refer to Safety Related Adjustments on page 17).

When replacing components identified by , make the necessary adjustments as indicated. If the results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved.

When replacing the parts listed in the table below, it is important to perform the related adjustments.

Part Replaced (☑)	Adjustment (►)
D BOARD: D8004, D8014, IC6503, IC8001, IC8003, IC8004, R6590, R8016, R8021, R8028, R8041, R8042, R8044, R8072, R8073, R8074, R8077, R8078, R8080, R8081, R8082, R8091, R8095	D BOARD: RV8001, RV8002

REFERENCE INFORMATION

RESISTOR CAPACITOR : RN METAL FILM **TANTALUM** : TA SOLID : RC : PS **STYROL** NONFLAMMABLE CARBON : FPRD : PP **POLYPROPYLENE** : FUSE NONFLAMMABLE FUSIBLE : PT MYLAR · RW NONFLAMMABLE WIREWOUND : MPS METALIZED POLYESTER NONFLAMMABLE METAL OXIDE : RS

NONFLAMMABLE METAL OXIDE : MPP METALIZED POLYPROPYLENE NONFLAMMABLE CEMENT : ALB BIPOLAR

ADJUSTMENT RESISTOR : ALT HIGH TEMPERATURE : ALR HIGH RIPPLE

: ALR

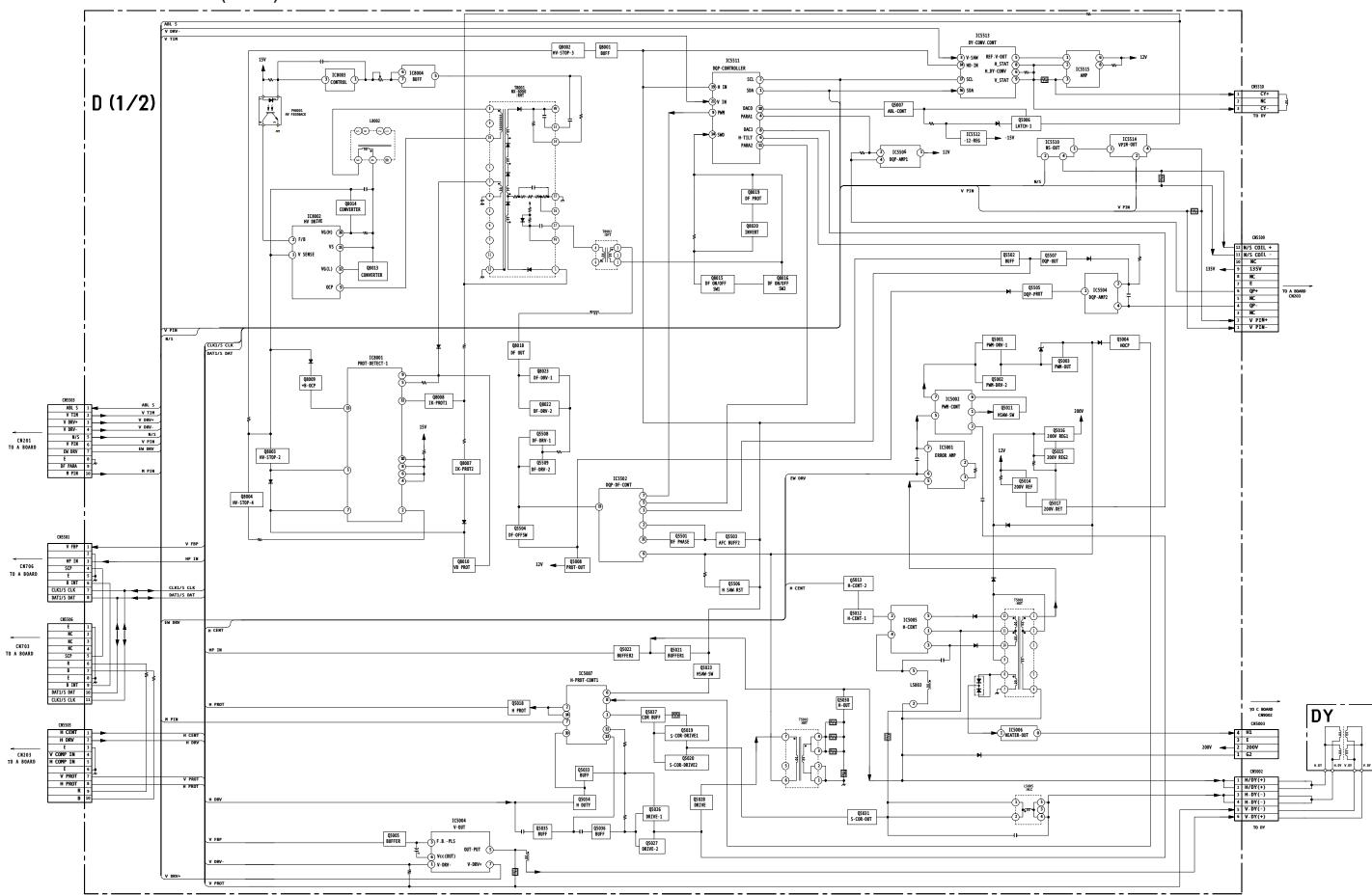
COIL

: RB

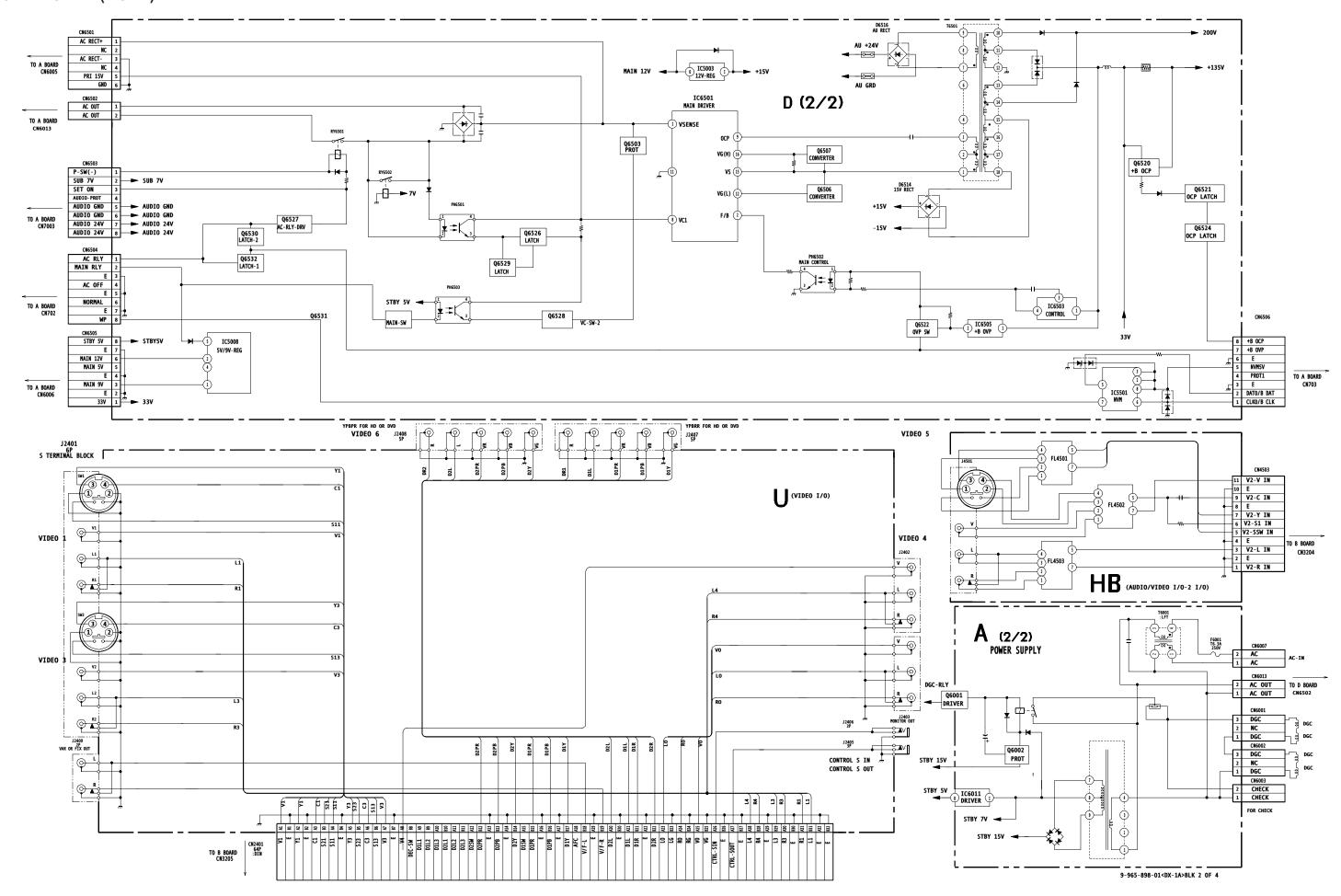
: 💥

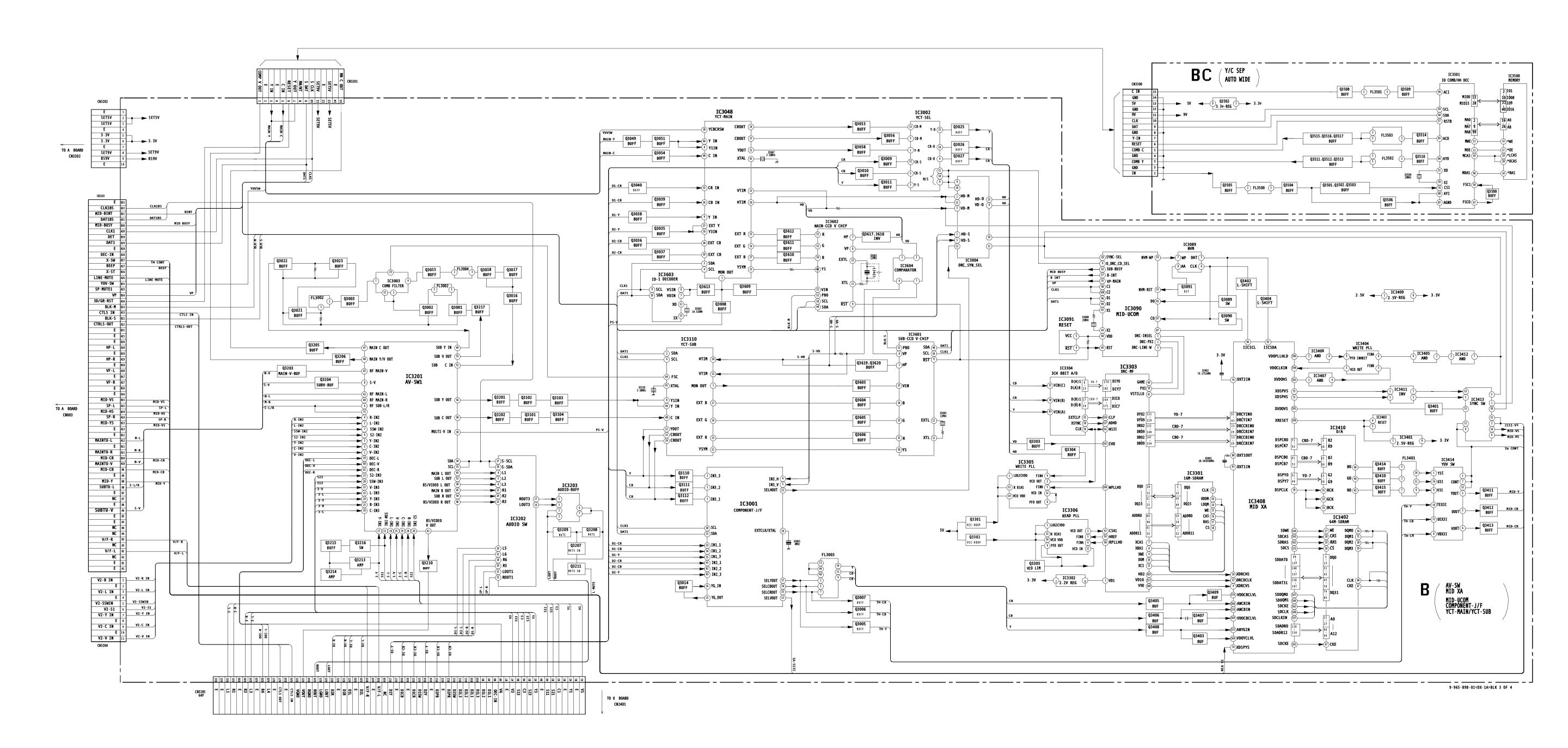
: LF-8L MICRO INDUCTOR

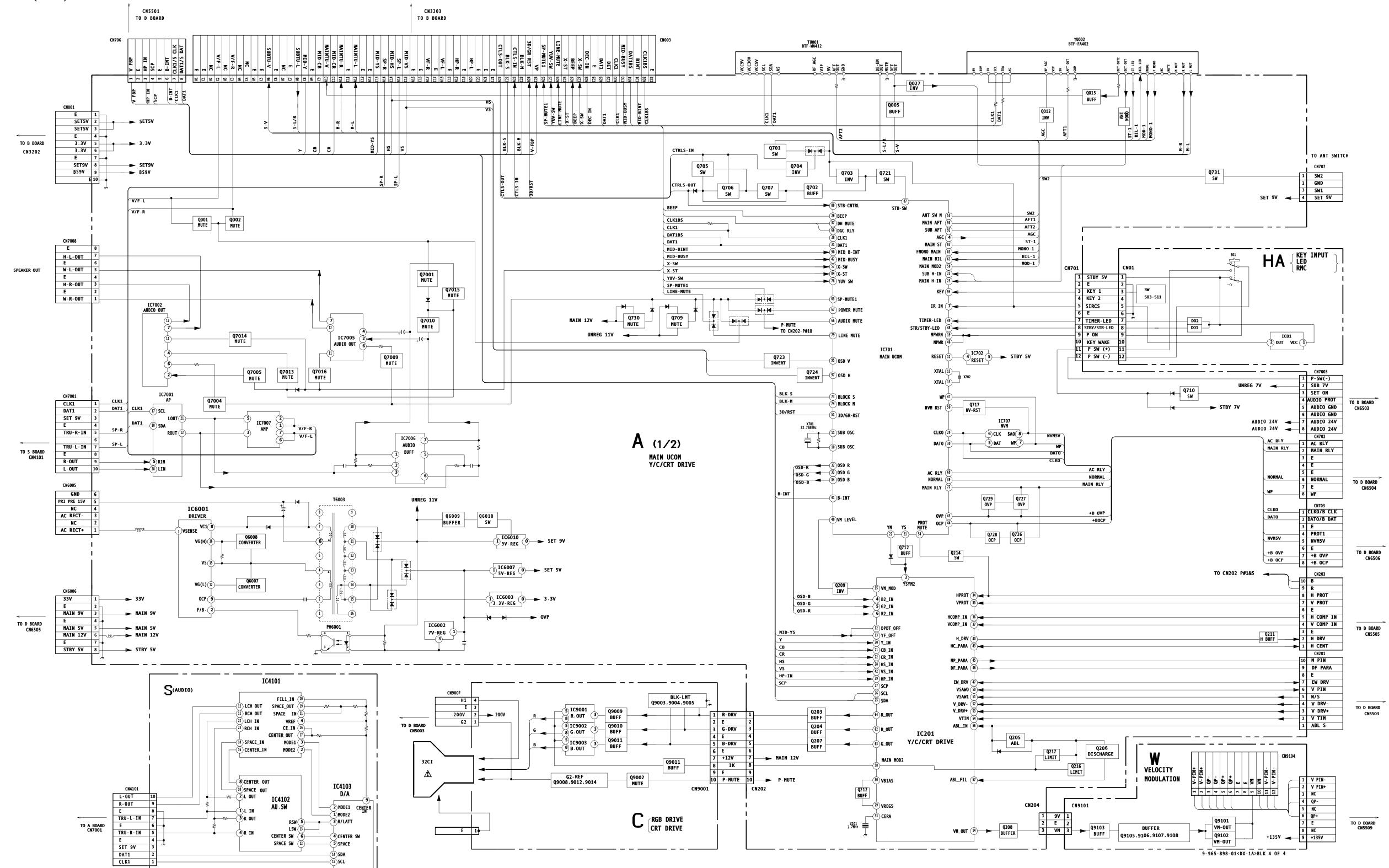
BLOCK DIAGRAM (1 OF 4)

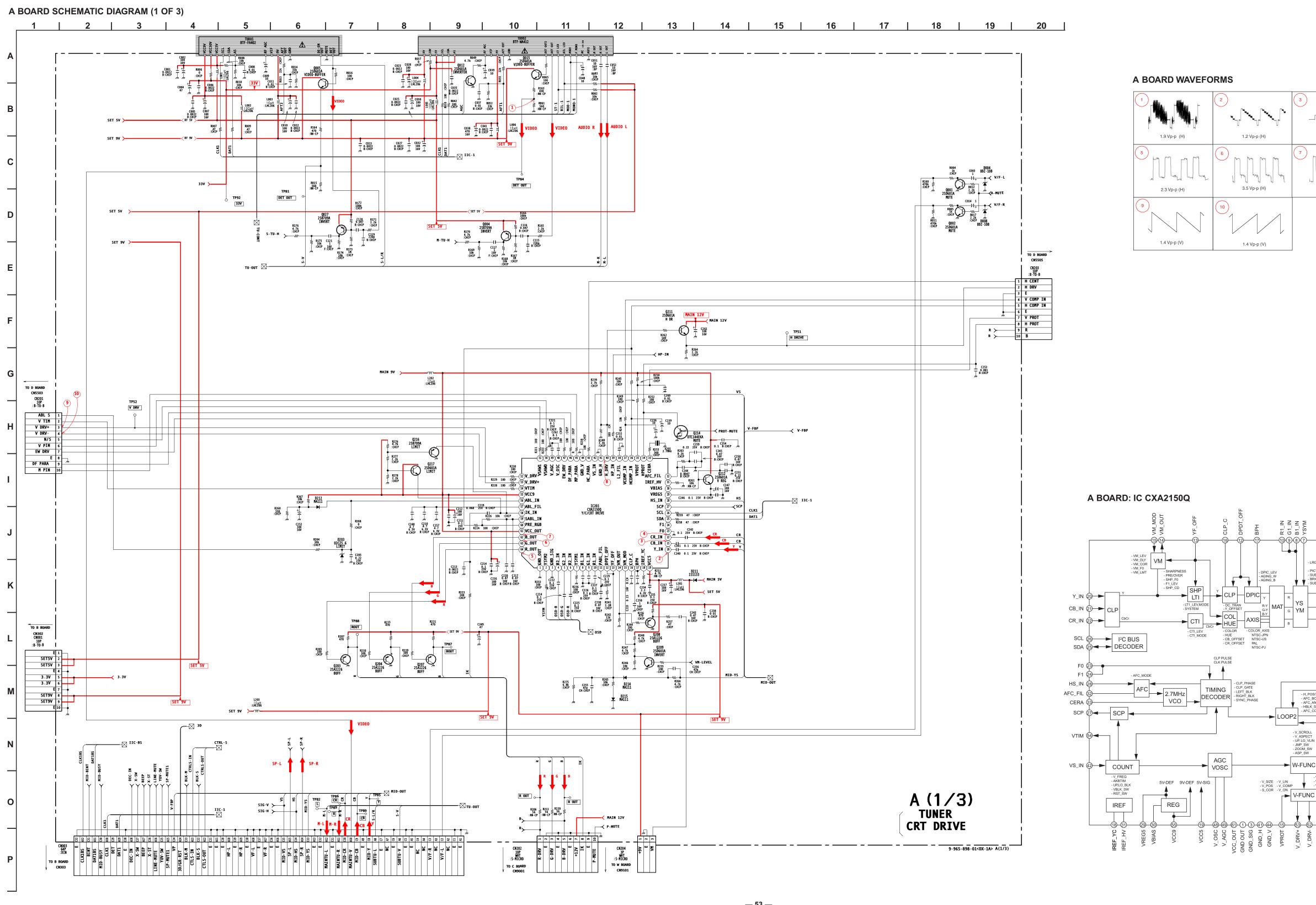


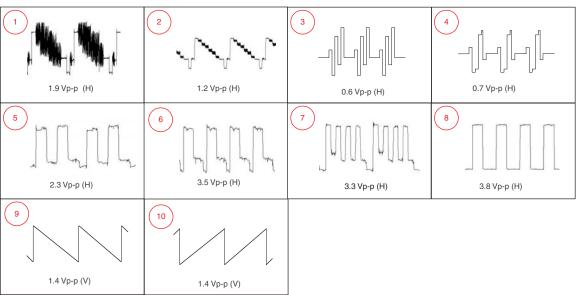
BLOCK DIAGRAM (2 OF 4)

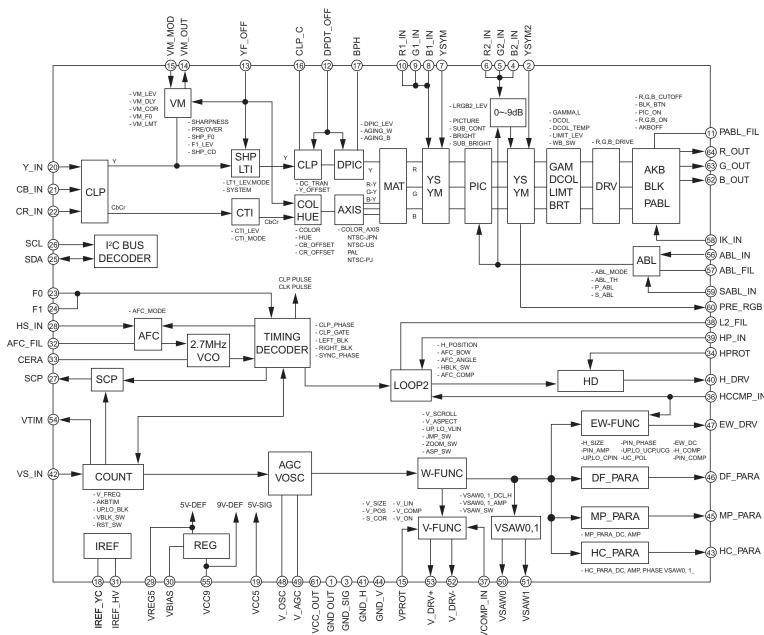


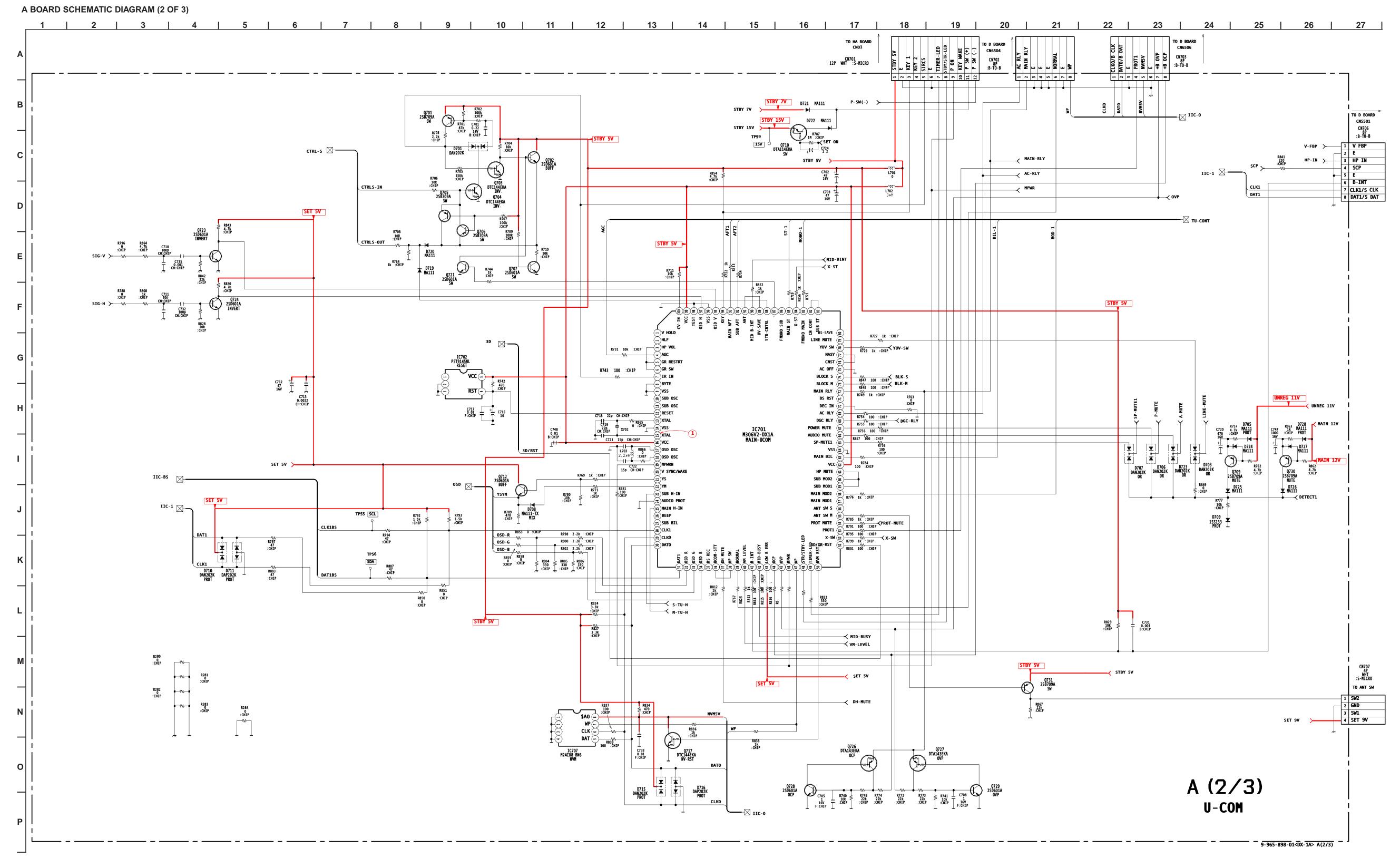


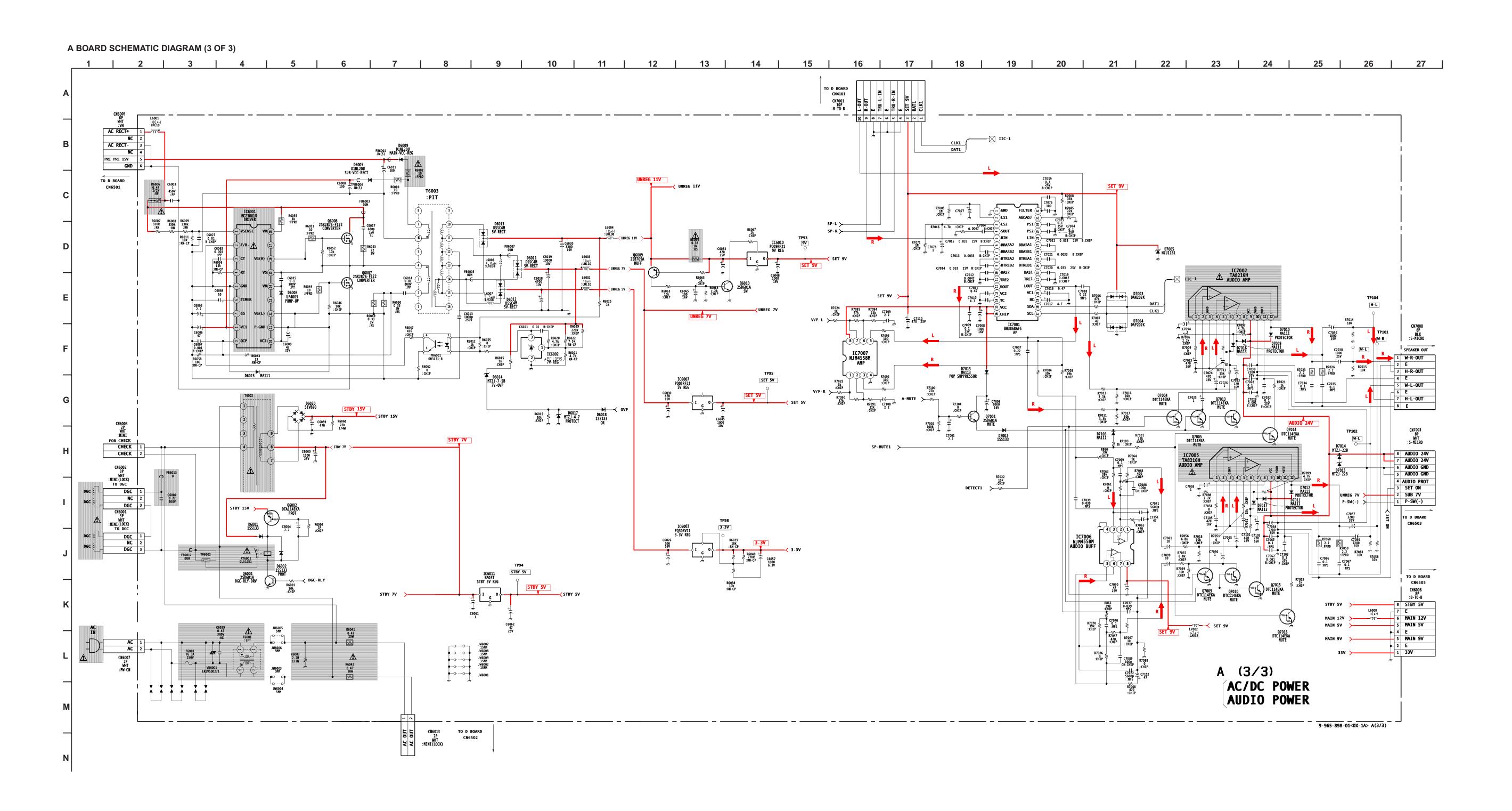


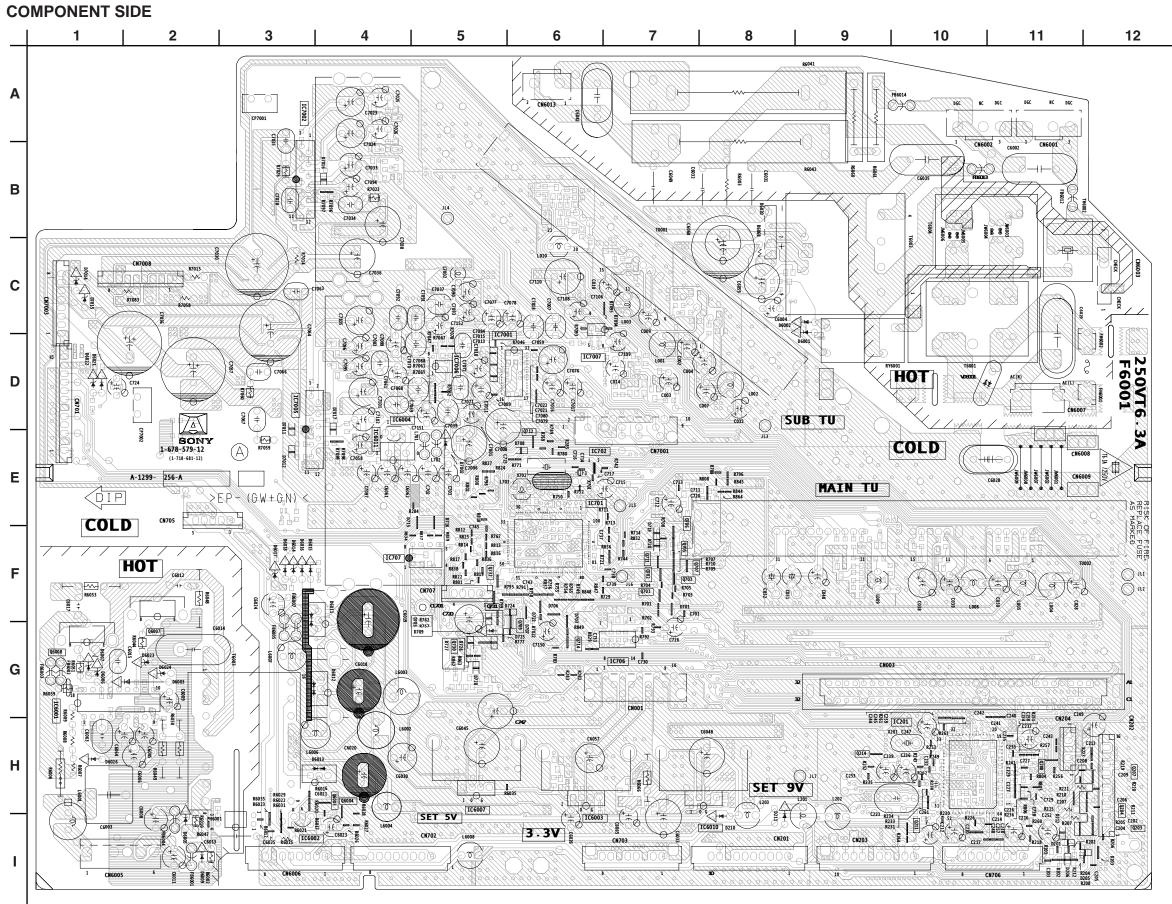






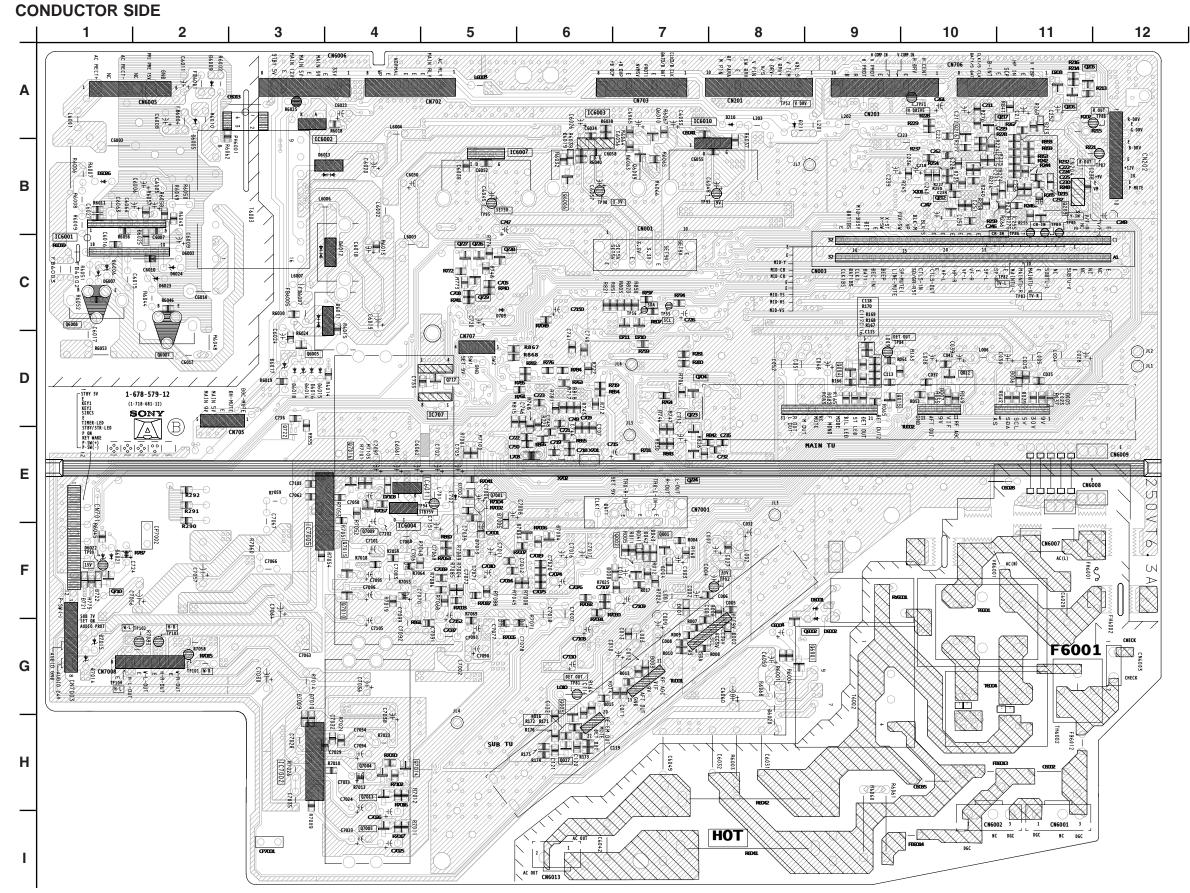






A BOARD LOCATOR LIST (COMPONENT SIDE)

	IC201	H-10
	IC701	E-6
H-8		E-6
D-4		F-4
	IC6001	G-1
		I-4
F-6		I-7
	IC6007	H-5
E-6		I-8
G-5		E-4
	IC7001	D-6
	IC7002	A-3
		D-3
F-7		D-5
F-6	IC7007	D-6
	TRANS	
	Q203	I-12
	Q204	I-12
	Q207	H-12
G-5	Q208	H-11
	Q211	I-10
		H-9
G-2	Q701	F-7
I-2	Q702	F-7
I-2	Q703	F-7
	Q705	F-7
G-4		F-7
H-4	Q707	F-7
	Q709	G-6
F-3		D-6
B-8	Q721	F-7
		G-5
	Q731	F-5
E-3	Q6007	G-2
C-1	Q6008	G-1
		· · · · · · · · · · · · · · · · · · ·
B-4		
D-4		
	D-4 F-6 F-4 F-6 G-6 G-5 E-4 E-5 F-7 F-7 F-6 G-5	I-12 IC201



A BOARD LOCATOR LIST (CONDUCTOR SIDE)

DIO	DE	Q206	A-11
D004	F-7	Q209	B-11
D008	F-7	Q212	B-10
D214	B-10	Q216	A-10
D215	B-10	Q217	A-11
D710	D-7	Q704	D-8
D711	D-7	Q710	F-1
D721	F-1	Q717	D-5
D722	F-1	Q723	D-7
D6018	D-3	Q724	E-7
D6025	D-3	Q726	C-5
D7003	E-5	Q727	C-5
D7004	E-5	Q728	C-6
D7005	E-5	Q729	C-5
D7009	H-4	Q6001	G-9
D7010	H-4	Q6002	G-10
D7013	F-5	Q6009	B-7
D7103	E-4	Q6010	A-7
TRANS	ISTOR	Q7001	E-5
Q001	F-7	Q7004	H-4
Q002	F-7	Q7005	I-4
Q004	D-9	Q7009	F-4
Q005	H-6	Q7010	F-4
Q012	D-10	Q7013	H-4
Q015	D-10	Q7014	H-4
Q027	H-6	Q7015	F-4
Q205	A-11	Q7016	

A BOARD IC VOLTAGE LIST (1 OF 3)

IC2	201	14	2.3	29	5.0	44	GND	59	1.7	
pin	volt	15	3.7	30	5.6	45	2.8	60	1.7	
1	GND	16	2.7	31	1.3	46	3.6	61	9.0	
2	0.0	17	2.6	32	3.0	47	3.9	62	2.3	
3	GND	18	1.1	33	1.6	48	4.4	63	2.5	
4	3.1	19	4.9	34	0.0	49	5.4	64	2.3	
5	3.1	20	3.6	35	0.0	50	3.5	All voltages are in V.		
6	3.1	21	3.4	36	0.2	51	3.8			
7	0.0	22	3.4	37	0.0	52	3.4			
8	3.6	23	GND	38	3.2	53	3.5			
9	3.6	24	N/C	39	1.1	54	1.0			
10	3.6	25	4.6	40	2.8	55	9.0			
11	0.0	26	4.6	41	GND	56	1.0			
12	0.5	27	0.7	42	0.0	57	4.3			
13	0.5	28	0.0	43	3.8	58	3.9	l		

A BOARD TRANSISTOR **VOLTAGE LIST (1 OF 3)**

	В	С	Е
Q001	0.4	0.0	GND
Q002	0.4	0.0	GND
Q004	4.6	1.1	5.0
Q005	4.3	9.0	3.6
QO12	0.1	7.5	GND
Q015	6.2	9.0	5.5
Q027	4.5	0.0	5.0
Q203	2.3	GND	3.2
Q204	2.5	GND	3.2
Q205	2.3	3.4	GND
Q206	3.4	4.1	3.5
Q207	2.3	GND	3.2
Q208	2.3	GND	3.2
Q209	0.8	2.2	GND
Q211	2.8	11.5	2.3
Q212	5.6	9.0	5.0
Q214	0.0	0.0	GND
Q216	4.5	GND	3.9
Q217	4.4	8.7	3.9

A BOARD IC VOLTAGE LIST (2 OF 3)

IC	701	17	0.0	35	N/C	53	3.0	71	N/C	89	0.0	5	4.9
pin	volt	18	0.0	36	0.0	54	0.0	72	6.3	90	0.0	IC.	707
1	N/C	19	0.0	37	4.6	55	0.0	73	0.0	91	0.0	pin	volt
2	N/C	20	2.8	38	0.0	56	0.0	74	0.0	92	0.0	1	GND
3	0.0	21	0.0	39	0.0	57	N/C	75	GND	93	0.0	2	GND
4	0.0	22	0.0	40	0.0	58	0.0	76	0.0	94	4.6	3	GND
5	0.0	23	0.0	41	2.3	59	0.0	77	0.0	95	4.6	4	GND
6	0.0	24	GND	42	0.0	60	0.0	78	0.0	96	GND	5	4.6
7	4.7	25	0.0	43	4.6	61	0.0	79	0.0	97	4.6	6	4.6
8	GND	26	N/C	44	2.8	62	4.9	80	N/C	98	GND	7	5.0
9	GND	27	N/C	45	0.1	63	4.9	81	0.0	99	4.9	8	5.0
10	N/C	28	4.4	46	0.0	64	GND	82	0.0	100	4.6	All voltag	ges are in V.
11	N/C	29	4.9	47	4.6	65	0.0	83	0.0	IC	702		
12	4.9	30	4.9	48	5.0	66	N/C	84	0.0	pin	volt		
13	2.3	31	4.4	49	5.0	67	0.0	85	0.0	1	N/C		
14	GND	32	0.0	50	0.0	68	0.0	86	N/C	2	GND		
15	2.4	33	0.0	51	5.0	69	7.3	87	0.0	3	GND		
16	4.9	34	0.0	52	0.0	70	0.0	88	0.0	4	4.9		

A BOARD TRANSISTOR VOLTAGE LIST (2 OF 3)

	В	С	Е
Q701	4.7	4.7	5.0
Q702	0.1	5.0	0.0
Q703	4.6	5.0	GND
Q704	0.0	4.4	GND
Q705	5.0	0.0	0.0
Q706	5.0	0.0	0.0
Q707	0.5	0.0	GND
Q709	10.4	0.7	10.2
Q710	19.5	0.0	19.9
Q712	0.0	5.0	0.0
Q717	0.0	5.0	GND
Q719	0.6	4.5	GND
Q720	4.5	0.0	4.5
Q721	0.0	0.0	GND
Q723	0.2	4.6	GND
Q724	0.5	4.6	GND
Q731	0.0	0.0	5.0

A BOARD IC VOLTAGE LIST (3 OF 3)

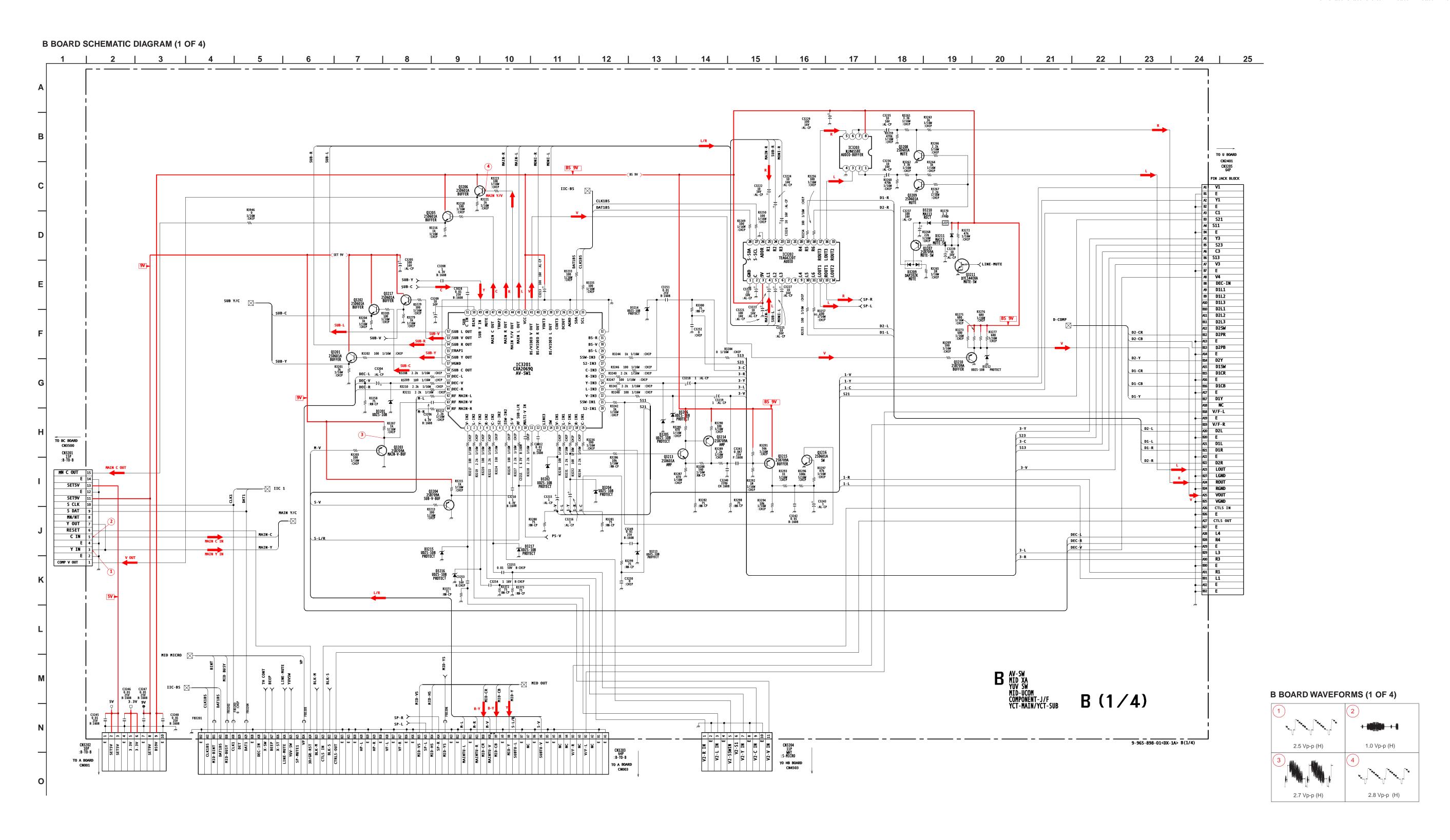
IC6	001	14	160.6	IC6	007	IC7	001	14	1.9	29	4.4	10	0.0	11	4.2
pin	volt	15	150.4	pin	volt	pin	volt	15	9.0	30	4.5	11	4.1	12	10.5
1	3.3	16	154.6		6.3	1	GND	16	9.0	31	2.8	12	10.5	IC7	006
2	1.8	17	N/C	G	GND	2	0.0	17	4.5	32	4.4	IC7	005	pin	volt
3	2.2	18	303.1	0	5.0	3	4.5	18	4.6	IC7	002	pin	volt	1	4.5
4	2.5	IC6	002	IC6	010	4	4.4	19	1.9	pin	volt	1	1.6	2	4.5
5	GND	pin	volt	pin	volt	5	4.4	20	0.8	1	1.6	2	0.0	3	4.5
6	0.0	1	7.3		10.9	6	4.4	21	4.4	2	0.0	3	0.0	4	GND
7	4.6	2	GND	G	GND	7	4.4	22	4.4	3	0.0	4	0.0	5	4.5
8	17.3	3	2.5	0	9.0	8	4.4	23	4.4	4	0.0	5	1.6	6	4.5
9	0.0	IC6	003	IC6	011	9	4.4	24	4.4	5	1.6	6	8.0	7	4.5
10	10.4	pin	volt	pin	volt	10	4.4	25	4.4	6	8.0	7	11.0	8	9.0
11	GND	I	5.7	I	8.1	11	4.4	26	4.4	7	4.0	8	5.0	All voltage	es are in V.
12	4.7	G	GND	G	GND	12	4.4	27	4.4	8	5.0	9	23.7		
13	N/C	0	3.3	0	5.0	13	0.8	28	4.4	9	23.7	10	0.0		

A BOARD TRANSISTOR VOLTAGE LIST (3 OF 3)

	В	С	Е
Q6001	0.0	18.0	GND
Q6002	19.7	18.5	19.8
Q6003	-0.5	0.0	GND
Q7001	0.3	0.0	0.0
Q7002	-0.1	9.0	GND
Q7003	9.0	0.0	9.0
Q7004	0.3	8.0	GND
Q7005	0.0	0.0	GND
Q7009	0.3	8.0	GND
Q7010	0.0	0.7	GND
Q7011	0.0	-0.1	0.0
Q7014	0.0	4.1	GND
Q7016	0.0	4.2	GND

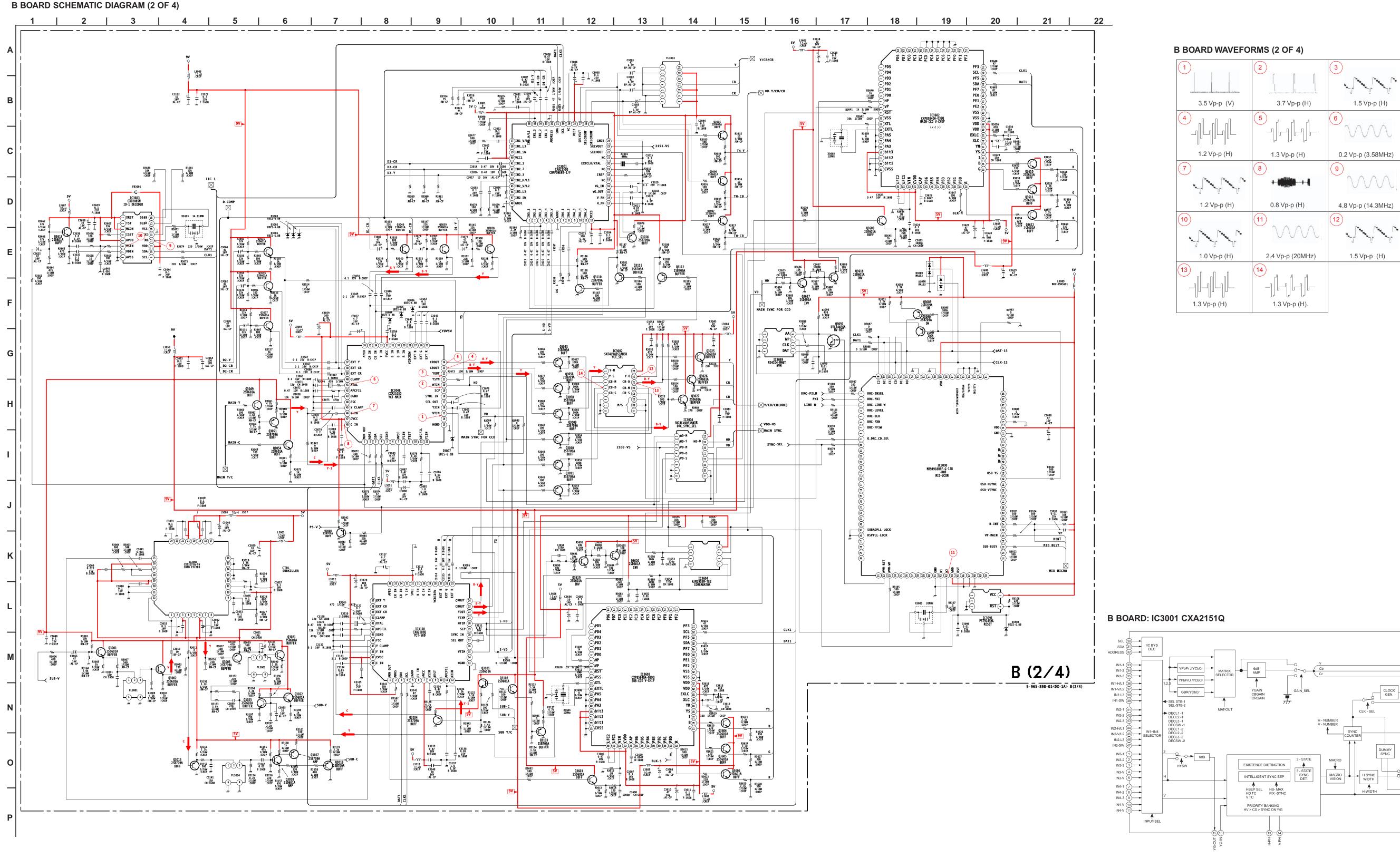
All voltages are in V.

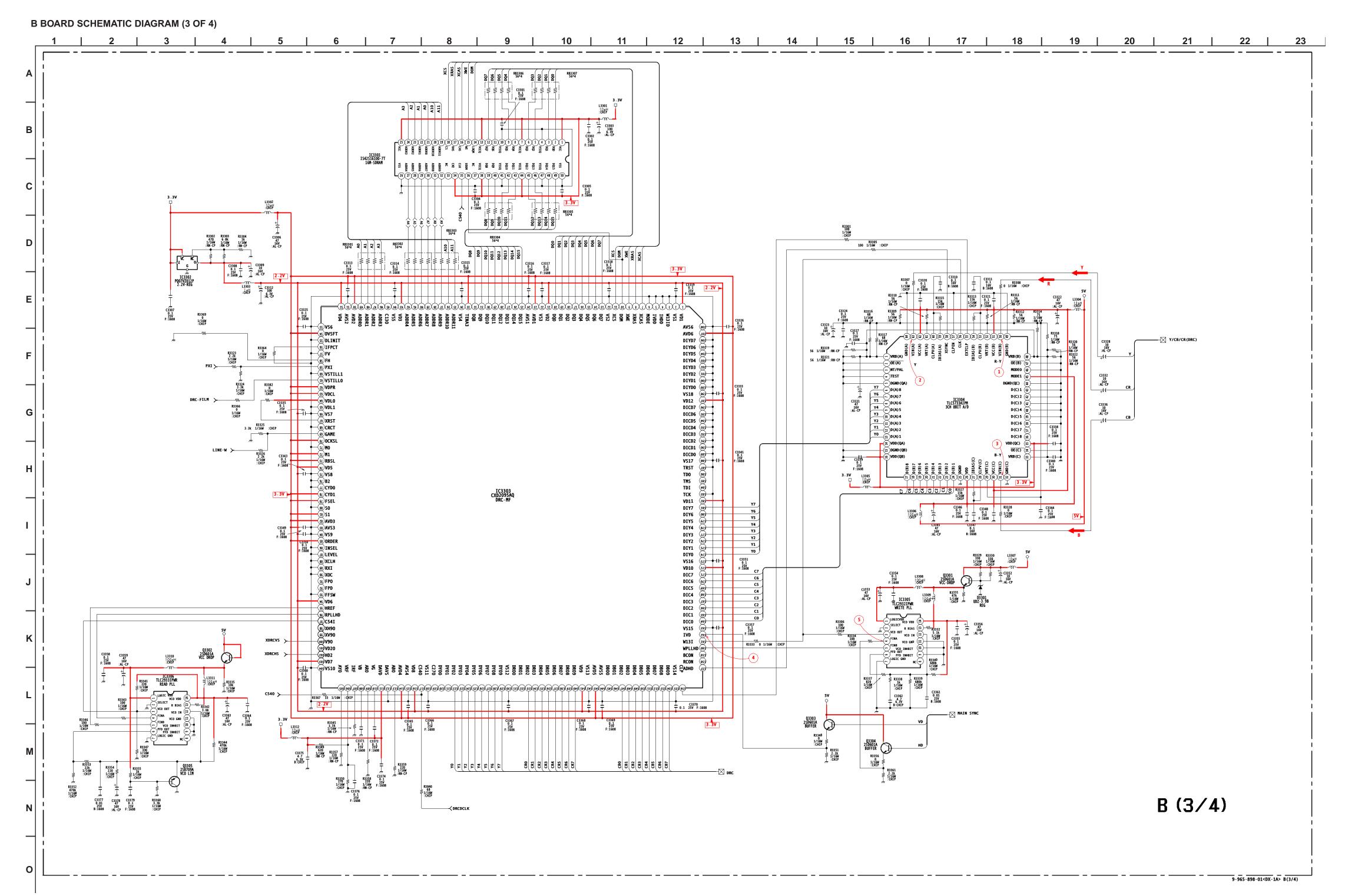
	D	G	S
Q6007	150.4	4.7	0.0
Q6008	303.0	154.6	150.0



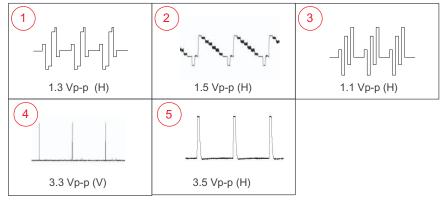
►(26) SELCB OUT

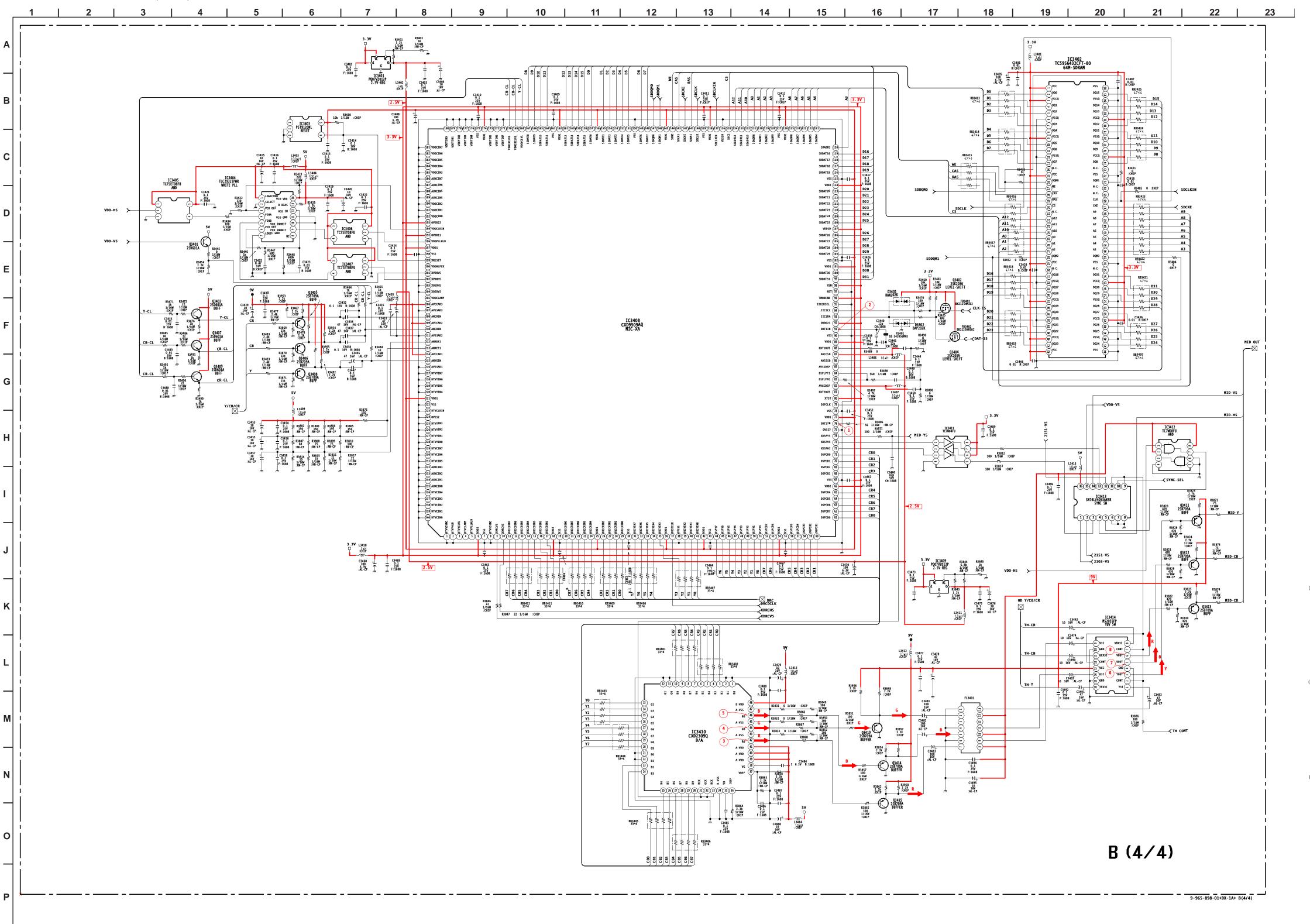
SELDUM





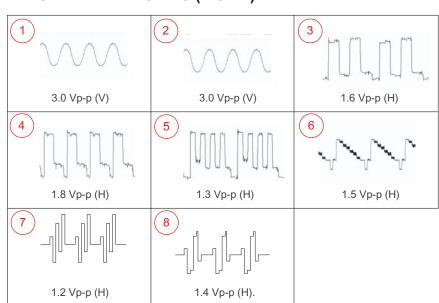




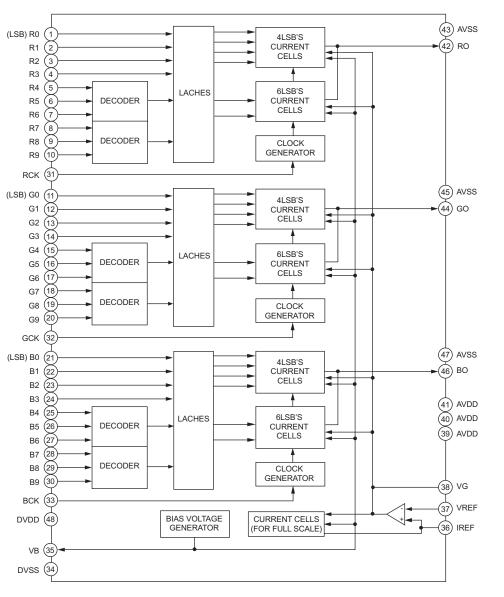


B BOARD SCHEMATIC DIAGRAM (4 OF 4)

B BOARD WAVEFORMS (4 OF 4)

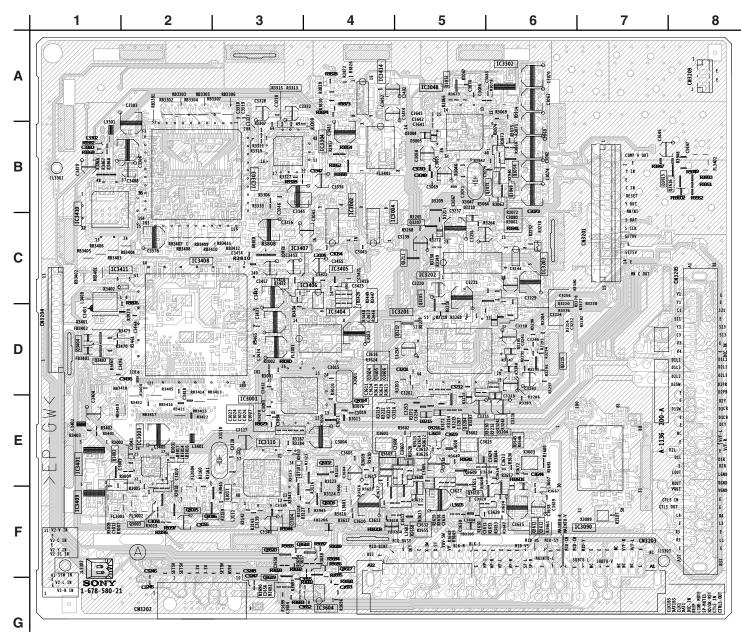


B BOARD: IC2309Q



[AV-SW1, AUDIO SW, MID-UCOM, YCT-MAIN, MAIN-CCD V-CHIP, SUB-CCD V-CHIP, 3CH 8 BIT A/D, DRC-MF, MID-XA, A/D]

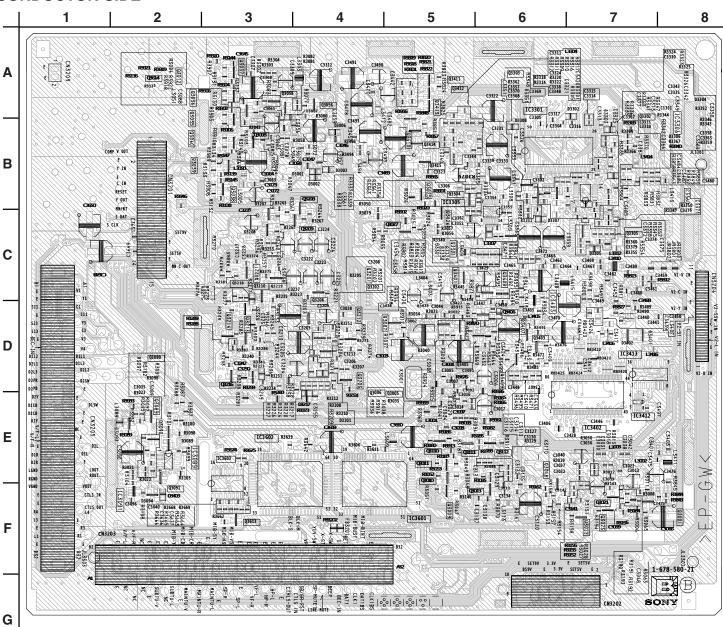
COMPONENT SIDE



B BOARD LOCATOR LIST (COMPONENT SIDE)

DIO	DE	IC	3	IC3302	A-6	IC3411	C-2	Q3051	B-6	Q3215	D-6	Q3612	F-6
D3004	B-5	IC3001	E-3	IC3303	B-3	IC3414	A-4	Q3053	A-5	Q3217	D-5	Q3617	F-4
D3005	B-5	IC3002	B-4	IC3304	B-4	IC3604	G-4	Q3054	B-6	Q3402	D-1	Q3618	F-4
D3202	E-5	IC3003	E-2	IC3401	E-1	TRANS	SISTOR	Q3101	E-4	Q3404	D-1	Q3619	G-3
D3204	E-6	IC3004	C-5	IC3404	D-4	Q3002	E-1	Q3102	E-4	Q3603	E-4	Q3620	F-3
D3205	D-6	IC3048	A-5	IC3405	C-4	Q3003	F-2	Q3103	F-4	Q3604	D-4		
D3206	E-6	IC3090	F-7	IC3406	C-4	Q3014	E-4	Q3104	F-3	Q3605	D-4		
D3209	B-5	IC3110	E-3	IC3407	C-4	Q3015	F-2	Q3204	E-5	Q3606	D-4		
D3210	B-5	IC3201	D-5	IC3408	C-2	Q3016	F-2	Q3205	C-5	Q3609	E-5		
D3211	B-5	IC3202	C-5	IC3409	F-1	Q3017	F-3	Q3207	C-5	Q3610	F-5		
D3214	D-6	IC3203	C-6	IC3410	C-1	Q3049	B-6	Q3211	C-5	Q3611	F-6		

CONDUCTOR SIDE



B BOARD LOCATOR LIST (CONDUCTOR SIDE)

DIO	DE	I	С	Q3005	E-5	Q3036	A-2	Q3203	D-4	Q3405	D-5
D3001	B-4	IC3089	E-2	Q3006	E-5	Q3037	A-3	Q3206	C-4	Q3406	D-6
D3002	B-4	IC3091	F-2	Q3007	D-5	Q3038	B-3	Q3208	B-4	Q3407	D-6
D3003	B-4	IC3301	B-6	Q3008	B-3	Q3039	B-2	Q3209	C-4	Q3408	C-6
D3006	B-4	IC3305	B-5	Q3009	F-5	Q3040	B-2	Q3210	C-3	Q3409	D-6
D3007	B-4	IC3306	B-8	Q3010	E-5	Q3056	A-4	Q3213	D-3	Q3410	B-5
D3089	E-2	IC3402	E-7	Q3011	E-5	Q3058	A-3	Q3214	D-3	Q3411	A-5
D3090	E-2	IC3403	C-6	Q3018	E-6	Q3089	E-2	Q3216	D-3	Q3412	A-5
D3201	E-4	IC3412	E-8	Q3021	F-7	Q3090	D-2	Q3301	C-5	Q3413	A-5
D3212	C-3	IC3413	D-7	Q3022	F-7	Q3091	F-2	Q3302	A-7	Q3414	B-5
D3213	D-3	IC3601	F-5	Q3023	F-7	Q3110	E-5	Q3303	A-6	Q3415	B-5
D3301	C-5	IC3602	E-3	Q3025	B-5	Q3111	E-5	Q3304	B-5	Q3613	F-3
D3401	D-7	IC3603	E-3	Q3026	B-5	Q3112	E-6	Q3305	C-7		
D3402	D-7	TRANS	SISTOR	Q3027	B-5	Q3201	C-4	Q3401	C-5		
D3403	F-2	Q3001	F-8	Q3035	B-2	Q3202	C-4	Q3403	D-6	1	

B BOARD TRANSISTOR VOLTAGE LIST (1 OF 4)

	В	С	Е
Q3201	4.6	2.9	2.5
Q3202	2.7	9.0	2.3
Q3203	3.1	GND	3.7
Q3204	1.8	GND	2.2
Q3205	4.4	9.0	3.8
Q3206	4.9	9.0	4.3
Q3207	8.9	-1.0	8.9
Q3208	-0.3	0	GND
Q3209	-0.3	0	GND
Q3210	2.7	GND	3.1
Q3211	0.4	8.9	GND
Q3213	3.8	7.9	3.2
Q3214	7.9	5.8	8.5
Q3215	8.5	0	9.0
Q3216	0.1	4.9	0
Q3217	3.6	9.0	3.1

All voltages are in V.

B BOARD TRANSISTOR VOLTAGE LIST (3 OF 4)

	В	С	E
Q3301	3.9	4.9	3.4
Q3302	4.9	4.9	3.4
Q3303	0.5	4.9	0.1
Q3304	0.5	4.9	0.2
Q3305	3.2	GND	2.3

All voltages are in V.

B BOARD TRANSISTOR VOLTAGE LIST (4 OF 4)

	В	C	Е
Q3401	0	4.9	0
Q3402	3.3	4.6	3.1
Q3403	1.0	4.9	0.5
Q3404	3.3	4.6	3.1
Q3405	2.3	GND	3.0
Q3406	2.3	GND	3.0
Q3407	1.7	4.9	1.2
Q3408	2.3	GND	3.0
Q3409	1.7	4.9	1.2
Q3410	0.5	GND	1.2
Q3411	1.5	GND	2.2
Q3412	1.5	GND	2.2
Q3413	1.5	GND	2.2
Q3414	0.8	GND	1.5
Q3415	1.4	GND	2.0
			-

All voltages are in V.

B BOARD TRANSISTOR VOLTAGE LIST (2 OF 4)

		_	_
	В	С	E
Q3001	4.1	9.0	3.4
Q3002	5.1	9.0	5.7
Q3003	1.8	GND	5.4
Q3005	2.2	4.9	1.6
Q3006	2.9	4.9	2.2
Q3007	2.9	4.8	2.3
Q3008	1.0	GND	1.6
Q3009	2.0	GND	0
Q3010	2.0	GND	0
Q3011	1.2	GND	0
Q3014	2.7	GND	3.3
Q3015	1.0	GND	1.6
Q3016	1.1	GND	1.7
Q3017	4.1	4.8	0.7
		4.0	
Q3018	1.5		0.9
Q3021	2.9	9.0	0.7
Q3022	7.9	9.0	0
Q3023	0.7	7.9	0.3
Q3025	2.5	5.0	1.4
Q3026	2.7	5.0	1.4
Q3027	2.8	5.0	1.4
Q3035	5.1	9.0	4.3
Q3036	5.1	9.0	4.3
Q3037	5.1	9.0	4.3
Q3038	4.9	9.0	4.1
Q3039	4.9	9.0	4.1
Q3040	4.9	9.0	4.1
Q3049	5.3	8.9	4.7
Q3051	2.3	GND	3.0
Q3053	2.0	GND	2.6
Q3054	5.7	8.9	5.1
Q3056	2.1	GND	2.8
Q3058	1.9	GND	2.5
Q3089	4.1	4.7	4.7
Q3090	4.1	4.7	4.7
Q3091	0	8.9	GND
Q3101	3.7	9.0	3.1
Q3101	2.8	9.0	2.2
Q3102	1.1	GND	1.7
			2.1
Q3104	1.5	GND	1.5
Q3110 Q3111	0.8	GND	
	1.2	GND	1.8
Q3112	1.2	GND	1.8
Q3603	1	4.9	0.3
Q3604	0	9.0	0
Q3605	0	9.0	0
Q3606	0	9.0	0
Q3609	1.9	4.9	1.3
Q3610	0	9.0	0
Q3611	0	9.0	0
Q3612	0	9.0	0
Q3613	3.7	4.9	3.0
Q3617	0.5	4.7	GND
Q3618	0.2	4.7	GND
Q3619	0.5	0.1	GND
Q3620	0.2	0.2	GND
		All volta	ann arn in V

B BOARD IC VOLTAGE LIST (1 OF 4)

IC3	201	26	4.4	53	3.8	14	4.4	
pin	volt	27	0.1	54	4.5	15	4.4	
1	3.9	28	4.9	55	N/C	16	4.4	
2	4.4	29	N/C	56	3.4	17	4.4	
3	3.9	30	N/C	57	GND	18	4.4	
4	4.4	31	N/C	58	4.3	19	4.4	
5	4.4	32	GND	59	4.4	20	N/C	
6	0.1	33	4.4	60	3.9	21	N/C	
7	4.9	34	4.6	61	4.4	22	N/C	
8	4.0	35	0.0	62	4.4	23	4.4	
9	4.5	36	N/C	63	4.8	24	4.4	
10	4.4	37	N/C	64	4.4	25	4.4	
11	4.5	38	4.5	IC3	202	26	GND	
12	4.4	39	N/C	pin	volt	27	4.6	
13	N/C	40	4.5	1	GND	28	4.6	
14	N/C	41	4.5	2	4.4	IC3	203	
15	4.4	42	9.0	3	9.0	pin	volt	
16	4.4	43	4.5	4	4.4	1	4.4	
17	3.9	44	4.4	5	4.4	2	4.4	
18	4.4	45	4.5	6	4.4	3	4.4	
19	4.4	46	N/C	7	N/C	4	GND	
20	0.1	47	4.4	8	N/C	5	4.4	
21	4.9	48	N/C	9	N/C	6	4.4	
22	4.3	49	4.1	10	4.4	7	4.4	
23	4.4	50	4.5	11	4.4	8	9.0	
24	3.9	51	4.4	12	4.4	All voltag	jes are in V.	
25	4.4	52	4.5	13	4.4			

B BOARD IC VOLTAGE LIST (2 OF 4)

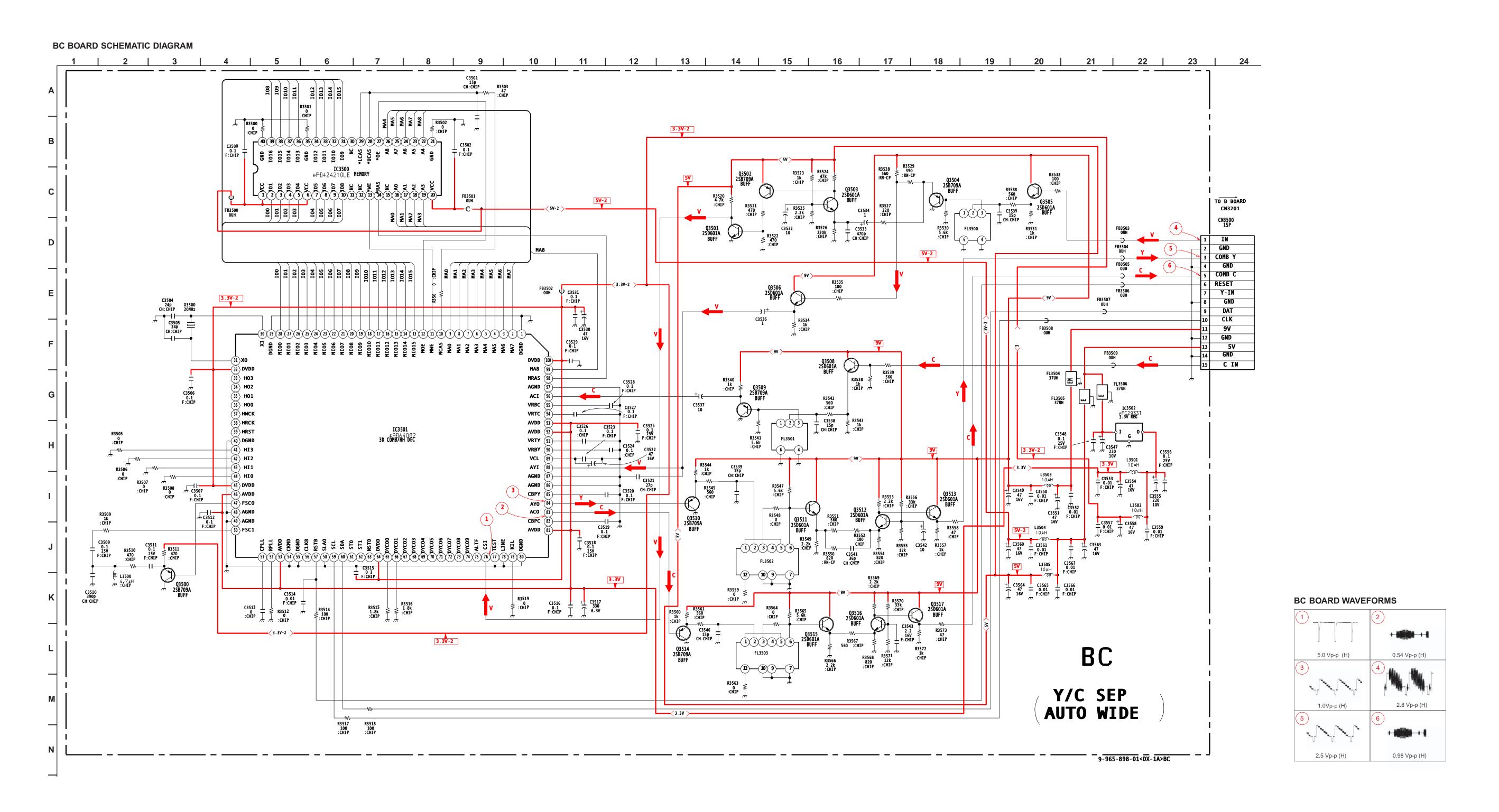
IC3	001	13	2.6	7	4.9	11	N/C	75	GND	30	N/C	44	N/C		GND
pin	volt	14	2.7	8	2.8	12	N/C	76	N/C	31	N/C	45	N/C	43	GND
1	3.2	15	2.5	9	N/C	13	N/C	77	N/C	32	4.8	46	N/C	44	N/C
2	3.2	16	4.9	10	N/C	14	N/C	78	N/C	33	N/C	47	N/C	45	N/C
3	3.2	IC3	003	11	2.3	15	N/C	79	N/C	34	N/C	48	4.6	46	N/C
4	1.2	pin	volt	12	N/C	16	N/C	80	N/C	35	N/C	49	N/C	47	N/C
5	1.0	1	1.0	13	GND	17	N/C	81	N/C	36	2.6	50	4.6	48	4.6
6	GND	2	0.0	14	N/C	18	N/C	82	N/C	37	N/C	51	N/C	49	N/C
7	N/C	3	4.8	15	0.5	19	N/C	83	GND	38	N/C	52	N/C	50	4.6
8	N/C	4	1.0	16	2.4	20	N/C	84	GND	39	N/C	53	N/C	51	N/C
9	N/C	5	N/C	17	2.0	21	N/C	85	GND	40	1.7	54	N/C	52	N/C
10	1.0	6	4.8	18	3.1	22	N/C	86	GND	41	1.8	55	N/C	53	N/C
11	0.9	7	0.5	19	N/C	23	N/C	87	N/C	42	2.4	56	N/C	54	N/C
12	4.8	8	0.0	20	0.5	24	N/C	88	N/C	43	0.0	57	N/C	55	GND
13	4.0	9	1.9	21	0.0	25	GND	89	5.0	44	2.4	58	N/C	56	GND
14 15	4.0 2.7	10 11	2.6 0.9	22 23	1.8	26 27	GND N/C	90 91	GND N/C	45 46	3.4 2.4	59	N/C N/C	57 58	GND
16	2.7	12	2.0	24	2.1	28	N/C	92	N/C	47	4.8	60 61	N/C	59	GND GND
17	1.0	13	GND	25	3.4	29	N/C	93	GND	48	3.1	62	N/C	60	GND
18	2.8	14	0.0	26	3.4	30	N/C	94	N/C		601	63	N/C	61	N/C
19	0.0	15	GND	27	3.4	31	N/C	95	2.9	pin	volt	64	N/C	62	N/C
20	2.7	16	GND	28	0.0	32	0.0	96	0.0	1	N/C	IC3	602	63	N/C
21	0.0	17	0.0	29	N/C	33	0.0	97	2.9	2	N/C	pin	volt	64	N/C
22	0.3	18	0.0	30	N/C	34	N/C	98	4.3	3	N/C	1	N/C		603
23	0.0	19	4.9	31	N/C	35	N/C	99	2.9	4	N/C	2	N/C	pin	volt
24	GND	20	N/C	32	4.8	36	N/C	100	4.3	5	N/C	3	N/C	1	4.9
25	2.9	21	4.9	33	3.4	37	N/C		091	6	N/C	4	N/C	2	GND
26	2.8	22	0.0	34	3.1	38	N/C	pin	volt	7	0.2	5	N/C	3	GND
27	2.2	23	N/C	35	0.0	39	N/C	1	N/C	8	0.1	6	N/C	4	1.4
28	4.8	24	GND	36	2.6	40	N/C	2	GND	9	4.9	7	0.2	5	4.9
29	GND	25	2.4	37	3.4	41	0.0	3	GND	10	GND	8	0.1	6	1.9
30	4.6	26	4.8	38	3.1	42	0.0	4	4.9	11	2.4	9	4.9	7	1.6
31	4.6	27	2.2	39	3.1	43	5.0	5	4.9	12	2.1	10	GND	8	GND
32	GND	28	2.2	40	1.7	44	0.0		110	13	GND	11	2.4	9	4.6
33	3.1	29	4.8	41	1.7	45	GND	pin	volt	14	GND	12	2.2	10	4.6
34	3.1	30	GND	42	2.4	46	GND	1	1.0	15	GND	13	GND	11	4.9
35	3.1	31	GND	43	0.0	47	GND	2	4.6	16	4.9	14	GND	12	2.6
36	3.2	32	1.0	44	N/C	48	N/C	3	4.6	17	4.9	15	GND	13	2.4
37	3.2		004	45	3.1	49	N/C	4	4.6	18	GND	16	4.9	14	GND
38	3.3	pin	volt	46 47	2.8	50	N/C	5	GND	19 20	GND	17	GND	15	N/C
39 40	2.4 4.8	2	0.6 0.5	47	4.8 3.1	51 52	N/C N/C	6 7	N/C	21	1.6 2.4	18 19	GND	16	N/C es are in V.
41	3.1	3	0.5		089	53	0.0	8	4.9 2.6	22	1.5	20	GND 1.7	All voltage	es ale ili v.
42	3.1	4	0.5		volt	54	N/C	9	N/C	23	4.9	21	2.5		
43	3.1	5	GND	pin 1	GND	55	0.0	10	N/C	24	0.0	22	2.5		
44	3.3	6	GND	2	GND	56	N/C	11	2.4	25	N/C	23	4.9		
45	3.2	7	GND	3	0.0	57	0.0	12	N/C	26	N/C	24	N/C		
46	3.2	8	GND	4	GND	58	N/C	13	GND	27	N/C	25	N/C		
47	2.4	9	4.9	5	4.6	59	N/C	14	N/C	28	N/C	26	N/C		
48	GND	10	4.9	6	4.6	60	N/C	15	0.5	29	N/C	27	N/C		
IC3		11	0.0	7	4.9	61	N/C	16	N/C	30	N/C	28	N/C		
pin	volt	12	0.3	8	4.9	62	N/C	17	1.6	31	0.0	29	N/C		
1	2.4	13	0.6	IC3	090	63	N/C	18	2.8	32	0.0	30	N/C		
2	0.0	14	0.3	pin	volt	64	N/C	19	N/C	33	0.0	31	0.0		
3	2.7	15	0.6	1	0.0	65	2.6	20	0.5	34	0.0	32	0.0		
4	2.8	16	4.9	2	0.0	66	N/C	21	0.0	35	N/C	33	0.0		
5	0.0		048	3	0.0	67	N/C	22	1.2	36	0.0	34	0.0		
6	GND	pin	volt	4	N/C	68	N/C	23	2.0	37	N/C	35	N/C		
7	GND	1	1.7	5	N/C	69	N/C	24	1.9	38	2.4	36	0.0		
8	GND	2	0.2	6	N/C	70	N/C	25	3.4	39	2.4	37	N/C		
9	4.9	3	4.6	7	N/C	71	N/C	26	3.4	40	4.9	38	2.4		
10	4.9	4	4.6	8	N/C	72	N/C	27	3.4	41	4.9	39	2.4		
11	4.9	5	GND	9	0.0	73	GND	28	N/C	42	GND	40	4.9		
12	0.1	6	N/C	10	0.0	74	5.0	29	N/C	43	GND	41	4.9		

B BOARD IC VOLTAGE LIST (3 OF 4)

100	201	100	202	15	N/C	00	, N/C	151	22	204	CND	17	
	301		302	45	N/C	98	N/C	151	2.3	204	GND	47	0.0
pin 1	volt	pin	volt 3.3	46	0.0	99	N/C	152 153	2.3	205	GND	48	1.5
2	3.3	G		47	0.0	100	0.0	153	2.0	206 207	GND 3.3	49	0.0
	1.5		GND	48		101	N/C		1.2			50	0.0
3	1.6	0	1.2	49	0.0	102	0.2	155	GND	208	GND	51	4.8
4	GND	VC	3.3	50	3.3	103	2.2	156	1.6		304	52	4.4
5	1.5	N/C	222	51	GND	104	GND	157	3.3	pin	volt	53	2.4
6	1.5		303	52	2.2	105	0.4	158	N/C	1	1.6	54	2.4
7	3.3	pin	volt	53	GND	106	1.0	159	N/C	2	0.0	55	1.6
8	1.9	1	2.2	54	3.3	107	1.0	160	0.8	3	0.0	56	0.5
9	GND	2	1.9	55	GND	108	1.0	161	0.9	4	0.0	57	0.0
10	1.8	3	GND	56	0.0	109	0.5	162	0.0	5	0.0	58	3.3
11	1.2	4	GND	57	GND	110	2.2	163	GND	6	1.2	59	3.3
12	3.3	5	GND	58	GND	111	3.3	164	1.4	7	1.2	60	1.6
13	0.5	6	GND	59	0.0	112	GND	165	1.9	8	0.0	61	3.2
14	3.2	7	1.9	60	GND	113	0.5	166	1.8	9	1.9	62	4.8
15	3.2	8	2.0	61	0.0	114	3.3	167	1.9	10	0.1	63	2.1
16	3.2	9	2.0	62	3.3	115	GND	168	1.9	11	0.8	64	0.0
17	3.2	10	0.3	63	3.3	116	2.2	169	1.9	12	2.0		305
18	3.2	11	1.9	64	3.3	117	0.0	170	1.9	13	1.6	pin	volt
19	0.0	12	GND	65	GND	118	GND	171	1.3	14	3.3	1	3.4
20	0.0	13	0.6	66	GND	119	N/C	172	2.2	15	0.0	2	GND
21	0.0	14	1.0	67	3.3	120	N/C	173	GND	16	3.3	3	1.6
22	0.0	15	1.9	68	GND	121	N/C	174	1.5	17	0.0	4	0.2
23	0.0	16	1.3	69	0.0	122	1.4	175	1.6	18	3.2	5	1.3
24	0.0	17	1.0	70	3.3	123	1.3	176	1.3	19	3.2	6	1.4
25	3.3	18	1.0	71	GND	124	1.4	177	1.0	20	3.2	7	GND
26	GND	19	1.2	72	3.3	125	1.4	178	2.3	21	3.2	8	N/C
27	0.0	20	1.0	73	3.3	126	1.0	179	0.7	22	3.2	9	GND
28	0.0	21	1.2	74	2.2	127	0.9	180	1.6	23	2.0	10	GND
29	0.0	22	GND	75	GND	128	1.1	181	0.8	24	1.1	11	GND
30	0.0	23	3.3	76	GND	129	0.9	182	2.2	25	GND	12	1.4
31	0.0	24	GND	77	GND	130	GND	183	GND	26	4.8	13	2.2
32	0.0	25	0.8	78	3.3	131	N/C	184	N/C	27	2.4	14	3.4
33	N/C	26	8.0	79	3.3	132	N/C	185	N/C	28	2.4		306
34	3.3	27	0.6	80	GND	133	1.6	186	N/C	29	3.2	pin	volt
35	1.7	28	1.2	81	3.3	134	1.6	187	GND	30	4.8	1	4.2
36	0.5	29	0.7	82	3.3	135	2.2	188	GND	31	2.4	2	GND
37	N/C	30	0.9	83	GND	136	2.2	189	GND	32	GND	3	1.9
38	3.3	31	1.0	84	GND	137	2.2	190	GND	33	1.5	4	3.3
39	1.6	32	0.9	85	3.3	138	2.1	191	GND	34	0.0	5	1.6
40	1.6	33	3.3	86	GND	139	2.2	192	GND	35	3.3	6	2.2
41	GND	34	GND	87	GND	140	1.1	193	GND	36	N/C	7	GND
42	1.5	35	0.0	88	GND	141	2.2	194	GND	37	N/C	8	N/C
43	1.5	36	0.0	89	GND	142	GND	195	GND	38	0.0	9	GND
44	3.3	37	0.0	90	GND	143	3.3	196	GND	39	0.0	10	GND
45	1.8	38	0.0	91	N/C	144	GND	197	2.2	40	0.0	11	GND
46	2.0	39	0.0	92	N/C	145	N/C	198	GND	41	0.0	12	2.3
47	GND	40	0.0	93	GND	146	N/C	199	GND	42	0.0	13	2.1
48	1.7	41	0.0	94	2.2	147	1.6	200	GND	43	0.0	14	4.2
49	1.2	42	0.0	95	1.0	148	1.6	201	GND	44	0.0	All voltag	es are in V.
50	GND	43	2.2	96	2.0	149	2.2	202	GND	45	4.9		
		44	GND	97	1.3	150	2.4	203	GND	46	0.0		

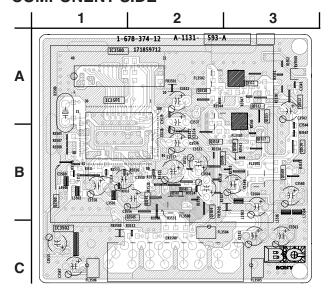
B BOARD IC VOLTAGE LIST (4 OF 4)

Pin Wolt 51 1,8 14 4,8 35 1,4 93 3,9 151 0.9 209 2,4 18 0.7 16 4.9	IC3	401	50	1.0	13	3.6	34	1.4	92	3.3	150	GND	208	1.0	17	2.4	15	GND
1 3.3 52 GND																		
G GND 53 0.9 pin volt 37 1.8 95 GND 153 2.4 211 GND 20 0.8 pin volt 0.1 12 54 0.9 1 4.8 38 GND 96 3.3 154 0.7 212 NC 21 GND 1.1 4.6 VC 3.3 55 3.3 22 0.3 39 1.4 97 GND 155 1.3 213 NC 22 GND 2.2 5.0 NC 1.5 66 1.1 3 GND 40 1.4 98 8.33 156 2.5 214 2.4 2.4 2.3 1.4 3 3.1 IC3402 57 NC 4 0.3 41 1.5 99 1.1 1.5 98 3.3 156 2.5 214 2.4 2.4 2.1 1.4 3 3.1 IC3402 57 NC 4 0.3 41 1.5 99 1.1 1.5 99 1.1 1.5 1.8 215 1.0 2.4 1.5 4 1.5 5 1.1 216 GND 25 1.5 5 3.1 1.3 3.3 59 2.4 IC3406 43 GND 101 2.5 159 2.8 217 GND 25 1.5 5 3.1 1. 3 3.3 59 2.4 IC3406 43 GND 101 2.5 159 2.8 217 GND 25 1.5 5 3.1 1. 3 3.3 59 2.4 IC3406 44 0.8 102 GND 160 16 218 GND 27 1.5 7 5.0 3.3 3.3 61 2.4 1.4 8.8 45 1.0 103 0.9 161 0.7 219 GND 28 1.5 9 4.6 5 0.9 6.3 1.7 3.3 GND 47 2.4 105 1.0 103 0.9 161 0.7 219 GND 28 1.5 9 4.6 5 0.9 6.3 1.7 3 GND 47 2.4 105 1.0 103 0.9 161 0.7 219 GND 28 1.5 9 4.6 5 0.9 6.3 1.7 3 GND 47 2.4 105 1.0 163 GND 221 1.2 30 1.9 10 GND 66 GND 64 1.7 4 0 48 0.9 106 1.4 16 162 2.5 222 GND 31 1.6 11 4.6 5 0.9 3.3 1.6 13 3.9 1.0 106 GND 65 1.8 1.8 1 4.8 52 1.9 110 1.7 13.3 165 0.7 223 GND 33 1.6 13 8.8 9 3.3 16 1.2 1.5 1.5 1.0 103 0.9 106 1.4 164 165 0.9 226 GND 33 1.6 13 8.8 9 3.3 67 2.9 pin volt 51 1.2 108 1.7 165 1.3 224 GND 33 1.6 11 4.6 11 1.2 8 69 NC 2.1 0.5 3 1.4 11 1.1 1.6 1.0 1.6 1.4 164 1.5 1.5 1.5 1.5 1.5 1.1 1.5 1.5 1.5 1.5			52	GND	IC3	405	36	2.4	94	3.0	152	2.2	210		19	1.0	IC3	414
O	G								95			2.4		GND	20			
VC									96					N/C				
NC																		
pin volt 58 GND 5 4.8 42 2.4 100 0.9 158 1.1 216 GND 25 1.5 5 3.1 1 33 59 2.4 103408 43 GND 101 2.5 155 2.8 217 GND 26 1.5 6 3.1 2 1.8 60 0 pin volt 44 0.8 102 GND 160 1.6 218 GND 27 1.5 7 5.0 3 33 35 2.4 1 4.8 45 1.0 103 0.9 161 0.7 219 GND 28 1.5 8 4.4 4 1.3 62 2.2 2 0 4.6 0.7 104 1.6 162 2.5 220 GND 29 1.5 9 4.6 5 0.9 63 1.7 3 GND 47 2.4 105 10 163 GND 221 1.2 30 1.9 10 GND 6 GND 64 1.7 4 0 4.8 0.9 106 1.4 164 62 2.5 222 GND 31 1.6 11 4.6 7 2.4 65 1.8 5 4.8 4.9 1.0 107 3.3 165 0.7 223 GND 32 1.7 12 5.0 8 2.2 66 0.1 1023407 50 1.1 108 1.7 166 1.3 224 GND 33 1.6 13 8.9 9 3.3 67 2.9 pin volt 51 1.2 109 1.7 167 1.8 225 GND 34 GND 144 4.6 10 0.9 68 1.8 1 4.8 52 1.9 110 1.1 168 0.9 226 GND 35 1.0 15 GND 11 2.8 69 NC 2 1.0 53 1.4 111 1.7 169 1.1 227 GND 36 0.0 16 4.6 12 GND 70 NC 3 GND 54 3.3 112 0.9 170 1.1 228 GND 34 34 34 34 34 34 34 3	NC						40	1.4	98						23			
pin volt 58 GND 5 4.8 42 2.4 100 0.9 158 1.1 216 GND 25 1.5 5 3.1 1 33 59 2.4 103408 43 GND 101 2.5 155 2.8 217 GND 26 1.5 6 3.1 2 1.8 60 0 pin volt 44 0.8 102 GND 160 1.6 218 GND 27 1.5 7 5.0 3 33 35 2.4 1 4.8 45 1.0 103 0.9 161 0.7 219 GND 28 1.5 8 4.4 4 1.3 62 2.2 2 0 4.6 0.7 104 1.6 162 2.5 220 GND 29 1.5 9 4.6 5 0.9 63 1.7 3 GND 47 2.4 105 10 163 GND 221 1.2 30 1.9 10 GND 6 GND 64 1.7 4 0 4.8 0.9 106 1.4 164 62 2.5 222 GND 31 1.6 11 4.6 7 2.4 65 1.8 5 4.8 4.9 1.0 107 3.3 165 0.7 223 GND 32 1.7 12 5.0 8 2.2 66 0.1 1023407 50 1.1 108 1.7 166 1.3 224 GND 33 1.6 13 8.9 9 3.3 67 2.9 pin volt 51 1.2 109 1.7 167 1.8 225 GND 34 GND 144 4.6 10 0.9 68 1.8 1 4.8 52 1.9 110 1.1 168 0.9 226 GND 35 1.0 15 GND 11 2.8 69 NC 2 1.0 53 1.4 111 1.7 169 1.1 227 GND 36 0.0 16 4.6 12 GND 70 NC 3 GND 54 3.3 112 0.9 170 1.1 228 GND 34 34 34 34 34 34 34 3		402			4		41		99						24		4	
1					5												5	
1.8			59	2.4	IC3	406	43		101	2.5	159	2.8	217	GND	26	1.5	6	3.1
3.3 61 2.4 1 4.8 45 1.0 103 0.9 161 0.7 219 GND 28 1.5 8 4.6 4														GND				
4							45										8	
5					2													
6 SND 64 1.7 4 0 48 0.9 106 1.4 164 2.5 222 GND 31 1.6 11 4.6 1.7 7 2.4 65 1.8 5 4.8 49 1.0 107 3.3 165 0.7 223 GND 32 1.7 12 5.0 8 2.2 66 0.1 1C3407 50 1.1 108 1.7 166 1.3 224 GND 33 1.6 13 8.9 9 3.3 67 2.9 pin volt 51 1.2 109 1.7 166 1.3 224 GND 33 1.6 13 8.9 9 3.3 67 2.9 pin volt 51 1.2 109 1.7 166 1.3 224 GND 33 1.6 13 8.9 10 0.9 68 1.8 1 4.8 52 1.9 110 1.1 168 0.9 226 GND 35 1.0 15 GND 11 2.8 69 NC 2 1.0 53 1.4 111 1.7 168 0.9 226 GND 35 1.0 15 GND 11 2.8 69 NC 2 1.0 53 1.4 111 1.7 168 0.9 226 GND 35 1.0 15 GND 11 2.8 69 NC 2 1.0 53 1.4 111 1.7 168 0.9 226 GND 35 1.0 15 GND 11 2.8 69 NC 2 1.0 53 1.4 111 1.7 168 0.9 226 GND 36 0.0 16 4.6 4.6 1.3 0.9 71 0.1 4 2.4 55 GND 54 3.3 112 0.9 170 1.1 228 GND 37 2.0 All voltages are in V. 13 0.9 71 0.1 4 2.4 55 GND 13 112 1.7 171 GND 229 GND 38 2.6 14 NC 72 GND 5 4.8 56 1.8 114 3.3 172 GND 230 GND 39 4.8 15 3.3 73 NC 1C3408 57 1.6 115 GND 173 GND 231 GND 40 4.8 16 0.1 74 1.8 pin volt 58 1.5 116 1.6 174 3.3 222 GND 41 4.8 16 0.1 74 1.8 pin volt 58 1.5 116 1.6 174 3.3 223 GND 41 4.8 16 0.1 74 1.8 pin volt 58 1.5 116 1.6 174 3.3 223 GND 42 1.0 18 2.2 178 80 0.7 6 3.3 64 0.8 122 2.2 180 GND 233 GND 42 1.0 1.0 18 2.2 1.7 80 0.7 6 3.3 64 0.8 122 2.2 180 GND 233 GND 42 1.0 2.0 18 2.2 1.7 80 0.7 6 3.3 64 0.8 122 2.2 180 GND 238 GND 47 0.2 2.2 1.7 80 0.7 6 3.3 64 0.8 122 2.2 180 GND 238 GND 47 0.2 2.2 1.7 80 0.7 6 3.3 64 0.8 122 2.2 180 GND 238 GND 44 0.5 2.2 2.2 1.7 80 0.7 6 3.3 64 0.8 122 2.2 180 GND 238 GND 44 0.5 2.2 2.2 1.7 80 0.7 6 3.3 64 0.8 122 2.2 180 GND 238 GND 44 0.5 0.2 2.2 1.7 80 0.7 6 3.3 64 0.8 122 2.2 180 GND 238 GND 47 0.0 1.3 2.2 2.2 1.3 1.7 81 3.3 7 0.0 65 0.9 123 1.7 181 GND 239 GND 48 4.8 1.2 2.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2						GND											10	
To 1																	11	
9 3.3 67 2.9 pin volt 51 1.2 109 1.7 167 1.8 225 GND 34 GND 14 4.6 10 0.9 68 1.8 1 4.8 51 1.2 109 1.7 167 1.8 225 GND 35 1.0 15 GND 11 2.8 69 NC 2 1.0 53 1.4 111 1.7 169 1.1 122 GND 36 0 16 4.6 12 GND 70 NC 3 GND 54 3.3 1.4 111 1.7 169 1.1 122 GND 36 0 16 4.6 12 GND 70 NC 3 GND 54 3.3 1.4 111 1.7 169 1.1 122 GND 36 0 16 4.6 12 GND 70 NC 3 GND 54 3.3 112 0.9 170 1.1 228 GND 37 2.0 All voltages are in V 14 NC 72 GND 5 4.8 56 1.6 114 3.3 172 GND 230 GND 39 4.8 15 3.3 173 NC 163408 57 1.6 115 GND 131 GND 231 GND 39 4.8 16 16 0.1 74 1.8 pin volt 58 1.5 116 1.6 174 3.3 222 GND 41 4.8 16 16 0.1 74 1.8 pin volt 58 1.5 116 1.6 174 3.3 232 GND 42 1.0 18 2.9 76 1.3 2 GND 60 1.5 118 1.6 176 GND 233 GND 42 1.0 19 18 2.9 76 1.3 2 GND 60 1.5 118 1.6 176 GND 233 GND 42 1.0 19 3.3 77 0.7 3 NC 61 1.4 119 1.7 177 GND 235 GND 44 0.5 20 2.8 78 GND 4 NC 62 2.4 120 0 178 GND 235 GND 44 0.5 22 1.7 80 0.7 6 3.3 64 0.8 122 2.2 180 GND 237 GND 46 0 22 1.7 80 0.7 6 3.3 64 0.8 122 2.2 180 GND 237 GND 46 0 0 22 1.7 80 0.7 6 3.3 7 GND 65 0.9 123 1.7 181 GND 239 GND 48 4.8 4.8 24 0.1 82 1.0 8 GND 66 6.3 3.1 12 12 2.4 179 GND 236 GND 46 0 0 12 0 1.8 12 1.0 18 2.9 9 0 67 GND 125 1.8 183 GND 240 GND 13 2 NC 22 1.0 8 GND 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			65		5	4.8												
9 3.3 67 2.9 pin volt 51 1.2 109 1.7 167 1.8 225 GND 34 GND 14 4.6 10 0.9 68 1.8 1 4.8 51 1.2 109 1.7 167 1.8 225 GND 35 1.0 15 GND 11 2.8 69 NC 2 1.0 53 1.4 111 1.7 169 1.1 122 GND 36 0 16 4.6 12 GND 70 NC 3 GND 54 3.3 1.4 111 1.7 169 1.1 122 GND 36 0 16 4.6 12 GND 70 NC 3 GND 54 3.3 1.4 111 1.7 169 1.1 122 GND 36 0 16 4.6 12 GND 70 NC 3 GND 54 3.3 112 0.9 170 1.1 228 GND 37 2.0 All voltages are in V 14 NC 72 GND 5 4.8 56 1.6 114 3.3 172 GND 230 GND 39 4.8 15 3.3 173 NC 163408 57 1.6 115 GND 131 GND 231 GND 39 4.8 16 16 0.1 74 1.8 pin volt 58 1.5 116 1.6 174 3.3 222 GND 41 4.8 16 16 0.1 74 1.8 pin volt 58 1.5 116 1.6 174 3.3 232 GND 42 1.0 18 2.9 76 1.3 2 GND 60 1.5 118 1.6 176 GND 233 GND 42 1.0 19 18 2.9 76 1.3 2 GND 60 1.5 118 1.6 176 GND 233 GND 42 1.0 19 3.3 77 0.7 3 NC 61 1.4 119 1.7 177 GND 235 GND 44 0.5 20 2.8 78 GND 4 NC 62 2.4 120 0 178 GND 235 GND 44 0.5 22 1.7 80 0.7 6 3.3 64 0.8 122 2.2 180 GND 237 GND 46 0 22 1.7 80 0.7 6 3.3 64 0.8 122 2.2 180 GND 237 GND 46 0 0 22 1.7 80 0.7 6 3.3 7 GND 65 0.9 123 1.7 181 GND 239 GND 48 4.8 4.8 24 0.1 82 1.0 8 GND 66 6.3 3.1 12 12 2.4 179 GND 236 GND 46 0 0 12 0 1.8 12 1.0 18 2.9 9 0 67 GND 125 1.8 183 GND 240 GND 13 2 NC 22 1.0 8 GND 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					-													
10																		
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12 GND																		
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14																	7 7 Onlag	a.o v.
15																	1	
16	15	3.3			IC3		57		115	GND	173	GND	231	GND	40	4.8	1	
18	16			1.8	pin	volt	58	1.5		1.6	174	3.3	232	GND	41	4.8	1	
19	17	3.1	75	3.3	1	GND	59	1.5	117	1.3	175	GND	233	GND	42	1.0	1	
19	18	2.9	76	1.3	2	GND	60	1.5	118	1.6	176	GND	234	GND	43	0	1	
21 NC 79 2.5 5 NC 63 0.9 121 2.4 179 GND 237 GND 46 0 22 1.7 80 0.7 6 3.3 64 0.8 122 2.2 180 GND 238 GND 47 0 23 1.7 81 3.3 7 GND 65 0.9 123 1.7 181 GND 239 GND 48 4.8 24 0.1 82 1.0 8 GND 66 3.3 124 1.7 182 GND 240 GND 163411 25 0.1 83 2.8 9 0 67 GND 125 1.8 183 GND 1240 GND 163411 25 0.1 83 2.8 9 0 67 GND 125 1.8 183 GND 10 10 0.2 68 0.8 126 3.3 184 GND 10 volt 1 3.2 27 0.1 85 1.1 11 0 69 0.6 127 GND 185 GND 1 3.3 2 NC 28 2.4 86 GND 12 0 70 0.9 128 0.1 186 GND G 3.3 3.2 NC 28 2.4 86 GND 12 0 70 0.9 128 0.1 186 GND G 3.3 3.2 2 29 3.3 1C3403 13 0 71 0.9 129 0.1 187 GND 0 2.5 4 GND 30 NC pin volt 14 0 72 3.2 130 2.3 188 GND VC 1.2 5 0.0 31 1.7 1 NC 15 0 73 3.2 131 0.1 189 GND NC 0 6 3.3 32 GND 2 GND 16 2.3 74 0.9 132 0.1 190 GND 163410 7 0 33 1.6 3 GND 17 1.6 75 GND 133 1.7 191 GND pin volt 8 3.3 34 1.3 4 1.7 18 3.3 76 3.3 134 1.7 192 GND 1 GND pin volt 8 3.3 34 1.3 4 1.7 18 3.3 76 3.3 134 1.7 192 GND 1 GND pin volt 8 3.3 35 3.3 5 2.5 19 GND 77 2.5 135 2.8 193 3.3 2 GND pin volt 8 3.3 35 3.3 5 2.5 19 GND 77 2.5 135 2.8 193 3.3 2 GND pin volt 8 3.3 36 GND 1 4.8 22 2.2 80 3.3 138 4.7 192 GND 1 GND pin volt 8 3.3 37 GND 2 GND 23 2.2 11 1.1 79 1.7 137 1.6 195 2.4 4 0.9 2 GND 1 GND					3		61			1.7		GND	235	GND	44	0.5	1	
21 NC 79 2.5 5 NC 63 0.9 121 2.4 179 GND 237 GND 46 0 22 1.7 80 0.7 6 3.3 64 0.8 122 2.2 180 GND 238 GND 47 0 23 1.7 81 3.3 7 GND 65 0.9 123 1.7 181 GND 239 GND 48 4.8 24 0.1 82 1.0 8 GND 66 3.3 124 1.7 182 GND 240 GND 163411 25 0.1 83 2.8 9 0 67 GND 125 1.8 183 GND 1240 GND 163411 25 0.1 83 2.8 9 0 67 GND 125 1.8 183 GND 10 10 0.2 68 0.8 126 3.3 184 GND 10 volt 1 3.2 27 0.1 85 1.1 11 0 69 0.6 127 GND 185 GND 1 3.3 2 NC 28 2.4 86 GND 12 0 70 0.9 128 0.1 186 GND G 3.3 3.2 NC 28 2.4 86 GND 12 0 70 0.9 128 0.1 186 GND G 3.3 3.2 2 29 3.3 1C3403 13 0 71 0.9 129 0.1 187 GND 0 2.5 4 GND 30 NC pin volt 14 0 72 3.2 130 2.3 188 GND VC 1.2 5 0.0 31 1.7 1 NC 15 0 73 3.2 131 0.1 189 GND NC 0 6 3.3 32 GND 2 GND 16 2.3 74 0.9 132 0.1 190 GND 163410 7 0 33 1.6 3 GND 17 1.6 75 GND 133 1.7 191 GND pin volt 8 3.3 34 1.3 4 1.7 18 3.3 76 3.3 134 1.7 192 GND 1 GND pin volt 8 3.3 34 1.3 4 1.7 18 3.3 76 3.3 134 1.7 192 GND 1 GND pin volt 8 3.3 35 3.3 5 2.5 19 GND 77 2.5 135 2.8 193 3.3 2 GND pin volt 8 3.3 35 3.3 5 2.5 19 GND 77 2.5 135 2.8 193 3.3 2 GND pin volt 8 3.3 36 GND 1 4.8 22 2.2 80 3.3 138 4.7 192 GND 1 GND pin volt 8 3.3 37 GND 2 GND 23 2.2 11 1.1 79 1.7 137 1.6 195 2.4 4 0.9 2 GND 1 GND	20	2.8	78	GND	4	NC	62	2.4	120	0	178	GND	236	GND	45	0	1	
22	21	NC	79	2.5	5	NC	63	0.9		2.4	179	GND	237	GND	46	0	1	
24 0.1 82 1.0 8 GND 66 3.3 124 1.7 182 GND 240 GND IC3411 25 0.1 83 2.8 9 0 67 GND 125 1.8 183 GND IC3409 pin volt 26 2.3 84 GND 10 0.2 68 0.8 126 3.3 184 GND pin volt 1 3.2 2 27 0.1 85 1.1 11 0 69 0.6 127 GND 185 mol 1 3.3 2 NC 28 2.4 86 GND 12 0 70 0.9 128 0.1 186 GND G 3.3 3.2 NC 29 3.3 IC3403 13 0 71 0.9 129 0.1 187 GND 0 0 5.0.0 0.0			80		6		64	0.8			180	GND	238	GND	47	0	1	
25	23	1.7	81	3.3	7	GND	65	0.9	123	1.7	181	GND	239	GND	48	4.8	1	
26 2.3 84 GND 10 0.2 68 0.8 126 3.3 184 GND pin volt 1 3.2 27 0.1 85 1.1 11 0 69 0.6 127 GND 185 GND 1 3.3 2 NC 28 2.4 86 GND 12 0 70 0.9 128 0.1 186 GND GND 3.3 3 3.2 29 3.3 IC3403 13 0 71 0.9 129 0.1 187 GND O 2.5 4 GND 30 NC pin volt 14 0 72 3.2 130 2.3 188 GND VC 1.2 5 0.0 31 1.7 1 NC 15 0 73 3.2 131 0.1 189 GND NC 0 6 3.3 </td <td>24</td> <td>0.1</td> <td>82</td> <td>1.0</td> <td>8</td> <td>GND</td> <td>66</td> <td>3.3</td> <td>124</td> <td>1.7</td> <td>182</td> <td>GND</td> <td>240</td> <td>GND</td> <td>IC3</td> <td>411</td> <td>1</td> <td></td>	24	0.1	82	1.0	8	GND	66	3.3	124	1.7	182	GND	240	GND	IC3	411	1	
27 0.1 85 1.1 11 0 69 0.6 127 GND 185 GND I 3.3 2 NC 28 2.4 86 GND 12 0 70 0.9 128 0.1 186 GND G 3.3 3 3.2 29 3.3 IC3403 13 0 71 0.9 129 0.1 187 GND 0 2.5 4 GND 30 NC pin volt 14 0 72 3.2 130 2.3 188 GND VC 1.2 5 0.0 31 1.7 1 NC 15 0 73 3.2 131 0.1 189 GND VC 1.2 5 0.0 31 1.7 1 NC 15 0 73 3.2 131 0.1 189 GND NC 0 6 3.3	25	0.1	83	2.8	9	0	67	GND	125	1.8	183	GND	IC3	409	pin	volt	1	
28 2.4 86 GND 12 0 70 0.9 128 0.1 186 GND G 3.3 3 3.2 29 3.3 IC3403 13 0 71 0.9 129 0.1 187 GND O 2.5 4 GND 30 NC pin volt 14 0 72 3.2 130 2.3 188 GND VC 1.2 5 0.0 31 1.7 1 NC 15 0 73 3.2 131 0.1 189 GND NC 0 6 3.3 32 GND 2 GND 16 2.3 74 0.9 132 0.1 190 GND IC3410 7 0 33 1.6 3 GND 17 1.6 75 GND 133 1.7 191 GND Din Volt 8 3.3 <	26	2.3	84	GND	10	0.2	68	0.8	126	3.3	184	GND	pin	volt	1	3.2	1	
29 3.3 IC3403 13 0 71 0.9 129 0.1 187 GND O 2.5 4 GND 30 NC pin volt 14 0 72 3.2 130 2.3 188 GND VC 1.2 5 0.0 31 1.7 1 NC 15 0 73 3.2 131 0.1 189 GND NC 0 6 3.3 32 GND 16 2.3 74 0.9 132 0.1 190 GND IC3410 7 0 33 1.6 3 GND 17 1.6 75 GND 133 1.7 191 GND 70 0 34 1.3 4 1.7 18 3.3 76 3.3 134 1.7 192 GND 1 GND IC3413 35 3.3 5 2.5 19	27	0.1	85	1.1	11	0	69	0.6	127	GND	185	GND	ı	3.3	2	NC	1	
30	28	2.4	86	GND	12	0	70	0.9	128	0.1	186	GND	G	3.3	3	3.2	1	
31 1.7 1 NC 15 0 73 3.2 131 0.1 189 GND NC 0 6 3.3 32 GND 2 GND 16 2.3 74 0.9 132 0.1 190 GND IC3410 7 0 33 1.6 3 GND 17 1.6 75 GND 133 1.7 191 GND pin volt 8 3.3 34 1.3 4 1.7 18 3.3 76 3.3 134 1.7 192 GND 1 GND IC3413 35 3.3 5 2.5 19 GND 77 2.5 135 2.8 193 3.3 2 GND pin volt 36 1.6 IC3404 20 0.6 78 GND 136 GND 194 2.4 3 0.9 1 GND	29	3.3	IC3	403	13	0	71	0.9	129	0.1	187	GND	0	2.5	4	GND	1	
32 GND 2 GND 16 2.3 74 0.9 132 0.1 190 GND IC3410 7 0 33 1.6 3 GND 17 1.6 75 GND 133 1.7 191 GND pin volt 8 3.3 34 1.3 4 1.7 18 3.3 76 3.3 134 1.7 192 GND 1 GND IC3413 35 3.3 5 2.5 19 GND 77 2.5 135 2.8 193 3.3 2 GND pin volt 36 1.6 IC3404 20 0.6 78 GND 136 GND 194 2.4 3 0.9 1 GND 37 1.7 pin volt 21 1.1 79 1.7 137 1.6 195 2.4 4 0.9 2 GND 38 GND 1 4.8 22 2.2 80 3.3 138 3.3 196 0 5 0.6 3 0.1 39 0.9 2 GND 23 2.2 81 NC 139 GND 197 2.4 6 0.8 4 0.1 40 1.7 3 2.3 24 2.4 82 2.5 140 1.5 198 GND 7 0.9 5 0.3 41 3.3 4 0.3 25 2.4 83 2.3 141 0 199 1.0 8 0.8 6 GND 42 1.1 5 2.4 26 2.3 84 0.4 142 2.6 200 NC 9 0.9 7 GND 43 3.3 6 0.9 27 2.2 85 0 143 3.0 201 0 10 2.4 8 GND 44 GND 7 GND 28 1.6 86 0 144 3.1 202 1.0 11 GND 9 5.0 45 1.7 8 NC 29 0.9 87 2.3 145 2.5 203 GND 13 1.2 11 5.0 46 GND 9 0 30 GND 88 1.6 146 0 204 GND 13 1.2 11 5.0 47 1.7 10 GND 31 1.1 89 2.5 147 0 205 NC 14 1.1 12 0	30	NC	pin	volt	14	0		3.2	130	2.3	188	GND	VC	1.2	5	0.0]	
33 1.6 3 GND 17 1.6 75 GND 133 1.7 191 GND pin volt 8 3.3 34 1.3 4 1.7 18 3.3 76 3.3 134 1.7 192 GND 1 GND IC3413 35 3.3 5 2.5 19 GND 77 2.5 135 2.8 193 3.3 2 GND pin volt 36 1.6 IC3404 20 0.6 78 GND 136 GND 194 2.4 3 0.9 1 GND 37 1.7 pin volt 21 1.1 79 1.7 137 1.6 195 2.4 4 0.9 2 GND 38 GND 1 4.8 22 2.2 80 3.3 138 3.3 196 0 5 0.6 3 0.1							73			0.1						3.3]	
34 1.3 4 1.7 18 3.3 76 3.3 134 1.7 192 GND 1 GND IC3413 35 3.3 5 2.5 19 GND 77 2.5 135 2.8 193 3.3 2 GND pin volt 36 1.6 IC3404 20 0.6 78 GND 136 GND 194 2.4 3 0.9 1 GND 37 1.7 pin volt 21 1.1 79 1.7 137 1.6 195 2.4 4 0.9 2 GND 38 GND 1 4.8 22 2.2 80 3.3 138 3.3 196 0 5 0.6 3 0.1 39 0.9 2 GND 23 2.2 81 NC 139 GND 197 2.4 6 0.8 4 0.1 <td></td> <td>GND</td> <td>2</td> <td>GND</td> <td></td> <td>2.3</td> <td></td> <td></td> <td></td> <td>0.1</td> <td></td> <td>GND</td> <td>IC3</td> <td>410</td> <td>7</td> <td></td> <td>]</td> <td></td>		GND	2	GND		2.3				0.1		GND	IC3	410	7]	
35 3.3 5 2.5 19 GND 77 2.5 135 2.8 193 3.3 2 GND pin volt 36 1.6 IC3404 20 0.6 78 GND 136 GND 194 2.4 3 0.9 1 GND 37 1.7 pin volt 21 1.1 79 1.7 137 1.6 195 2.4 4 0.9 2 GND 38 GND 1 4.8 22 2.2 80 3.3 138 3.3 196 0 5 0.6 3 0.1 39 0.9 2 GND 23 2.2 81 NC 139 GND 197 2.4 6 0.8 4 0.1 40 1.7 3 2.3 24 2.4 82 2.5 140 1.5 198 GND 7 0.9 5				GND									pin]	
36 1.6 IC3404 20 0.6 78 GND 136 GND 194 2.4 3 0.9 1 GND 37 1.7 pin volt 21 1.1 79 1.7 137 1.6 195 2.4 4 0.9 2 GND 38 GND 1 4.8 22 2.2 80 3.3 138 3.3 196 0 5 0.6 3 0.1 39 0.9 2 GND 23 2.2 81 NC 139 GND 197 2.4 6 0.8 4 0.1 40 1.7 3 2.3 24 2.4 82 2.5 140 1.5 198 GND 7 0.9 5 0.3 41 3.3 4 0.3 25 2.4 83 2.3 141 0 199 1.0 8 0.8 6 GND </td <td></td> <td>IC3</td> <td>413</td> <td>]</td> <td></td>															IC3	413]	
37 1.7 pin volt 21 1.1 79 1.7 137 1.6 195 2.4 4 0.9 2 GND 38 GND 1 4.8 22 2.2 80 3.3 138 3.3 196 0 5 0.6 3 0.1 39 0.9 2 GND 23 2.2 81 NC 139 GND 197 2.4 6 0.8 4 0.1 40 1.7 3 2.3 24 2.4 82 2.5 140 1.5 198 GND 7 0.9 5 0.3 41 3.3 4 0.3 25 2.4 83 2.3 141 0 199 1.0 8 0.8 6 GND 42 1.1 5 2.4 26 2.3 84 0.4 142 2.6 200 NC 9 0.9 7							77								pin]	
38 GND 1 4.8 22 2.2 80 3.3 138 3.3 196 0 5 0.6 3 0.1 39 0.9 2 GND 23 2.2 81 NC 139 GND 197 2.4 6 0.8 4 0.1 40 1.7 3 2.3 24 2.4 82 2.5 140 1.5 198 GND 7 0.9 5 0.3 41 3.3 4 0.3 25 2.4 83 2.3 141 0 199 1.0 8 0.8 6 GND 42 1.1 5 2.4 26 2.3 84 0.4 142 2.6 200 NC 9 0.9 7 GND 43 3.3 6 0.9 27 2.2 85 0 143 3.0 201 0 10 2.4 8			IC3	404]	
39 0.9 2 GND 23 2.2 81 NC 139 GND 197 2.4 6 0.8 4 0.1 40 1.7 3 2.3 24 2.4 82 2.5 140 1.5 198 GND 7 0.9 5 0.3 41 3.3 4 0.3 25 2.4 83 2.3 141 0 199 1.0 8 0.8 6 GND 42 1.1 5 2.4 26 2.3 84 0.4 142 2.6 200 NC 9 0.9 7 GND 43 3.3 6 0.9 27 2.2 85 0 143 3.0 201 0 10 2.4 8 GND 44 GND 7 GND 28 1.6 86 0 144 3.1 202 1.0 11 GND 9			pin]	
40 1.7 3 2.3 24 2.4 82 2.5 140 1.5 198 GND 7 0.9 5 0.3 41 3.3 4 0.3 25 2.4 83 2.3 141 0 199 1.0 8 0.8 6 GND 42 1.1 5 2.4 26 2.3 84 0.4 142 2.6 200 NC 9 0.9 7 GND 43 3.3 6 0.9 27 2.2 85 0 143 3.0 201 0 10 2.4 8 GND 44 GND 7 GND 28 1.6 86 0 144 3.1 202 1.0 11 GND 9 5.0 45 1.7 8 NC 29 0.9 87 2.3 145 2.5 203 GND 12 GND 10															3]	
41 3.3 4 0.3 25 2.4 83 2.3 141 0 199 1.0 8 0.8 6 GND 42 1.1 5 2.4 26 2.3 84 0.4 142 2.6 200 NC 9 0.9 7 GND 43 3.3 6 0.9 27 2.2 85 0 143 3.0 201 0 10 2.4 8 GND 44 GND 7 GND 28 1.6 86 0 144 3.1 202 1.0 11 GND 9 5.0 45 1.7 8 NC 29 0.9 87 2.3 145 2.5 203 GND 12 GND 10 5.0 46 GND 9 0 30 GND 88 1.6 146 0 204 GND 13 1.2 11]	
42 1.1 5 2.4 26 2.3 84 0.4 142 2.6 200 NC 9 0.9 7 GND 43 3.3 6 0.9 27 2.2 85 0 143 3.0 201 0 10 2.4 8 GND 44 GND 7 GND 28 1.6 86 0 144 3.1 202 1.0 11 GND 9 5.0 45 1.7 8 NC 29 0.9 87 2.3 145 2.5 203 GND 12 GND 10 5.0 46 GND 9 0 30 GND 88 1.6 146 0 204 GND 13 1.2 11 5.0 47 1.7 10 GND 31 1.1 89 2.5 147 0 205 NC 14 1.1 12]	
43 3.3 6 0.9 27 2.2 85 0 143 3.0 201 0 10 2.4 8 GND 44 GND 7 GND 28 1.6 86 0 144 3.1 202 1.0 11 GND 9 5.0 45 1.7 8 NC 29 0.9 87 2.3 145 2.5 203 GND 12 GND 10 5.0 46 GND 9 0 30 GND 88 1.6 146 0 204 GND 13 1.2 11 5.0 47 1.7 10 GND 31 1.1 89 2.5 147 0 205 NC 14 1.1 12 0 48 1.4 11 GND 32 1.0 90 GND 148 0.9 206 2.4 15 1.0 13 0										_]	
44 GND 7 GND 28 1.6 86 0 144 3.1 202 1.0 11 GND 9 5.0 45 1.7 8 NC 29 0.9 87 2.3 145 2.5 203 GND 12 GND 10 5.0 46 GND 9 0 30 GND 88 1.6 146 0 204 GND 13 1.2 11 5.0 47 1.7 10 GND 31 1.1 89 2.5 147 0 205 NC 14 1.1 12 0 48 1.4 11 GND 32 1.0 90 GND 148 0.9 206 2.4 15 1.0 13 0]	
45 1.7 8 NC 29 0.9 87 2.3 145 2.5 203 GND 12 GND 10 5.0 46 GND 9 0 30 GND 88 1.6 146 0 204 GND 13 1.2 11 5.0 47 1.7 10 GND 31 1.1 89 2.5 147 0 205 NC 14 1.1 12 0 48 1.4 11 GND 32 1.0 90 GND 148 0.9 206 2.4 15 1.0 13 0]	
46 GND 9 0 30 GND 88 1.6 146 0 204 GND 13 1.2 11 5.0 47 1.7 10 GND 31 1.1 89 2.5 147 0 205 NC 14 1.1 12 0 48 1.4 11 GND 32 1.0 90 GND 148 0.9 206 2.4 15 1.0 13 0											_]	
47 1.7 10 GND 31 1.1 89 2.5 147 0 205 NC 14 1.1 12 0 48 1.4 11 GND 32 1.0 90 GND 148 0.9 206 2.4 15 1.0 13 0]	
48 1.4 11 GND 32 1.0 90 GND 148 0.9 206 2.4 15 1.0 13 0																		
																_		
49 3.3 12 0.9 33 1.5 91 1.2 149 2.8 207 GND 16 0.9 14 0																		
	49	3.3	12	0.9	33	1.5	91	1.2	149	2.8	207	GND	16	0.9	14	0]	

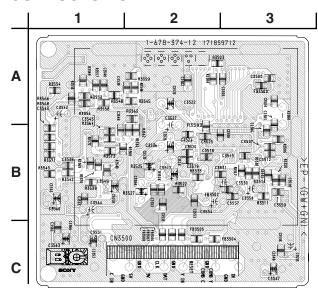




COMPONENT SIDE



CONDUCTOR SIDE



BC BOARD LOCATOR LIST

I	С	Q3506	B-3		
IC3500	A-1	Q3508	B-3		
IC3501	A-1	Q3509	B-3		
IC3502	C-1	Q3510	A-2		
TRANS	SISTOR	Q3511	A-3		
Q3500	B-1	Q3512	A-3		
Q3501	B-2	Q3513	A-3		
Q3502	B-2	Q3514	B-2		
Q3503	B-2	Q3515	A-3		
Q3504	B-2	Q3516	B-3		
Q3505	C-2	Q3517	B-3		

BC BOARD TRANSISTOR VOLTAGE LIST

	В	С	Е		В	С	E
Q3500	1.7	GND	2.3	Q3510	1.7	GND	2.3
Q3501	0.1	4.2	GND	Q3511	2.9	8.9	2.3
Q3502	4.6	0.4	4.9	Q3512	2.3	6.1	1.7
Q3503	3.3	4.7	4.0	Q3513	6.1	8.9	5.5
Q3504	3.3	GND	4.0	Q3514	1.6	GND	2.3
Q3505	4.3	8.9	3.6	Q3515	2.9	8.9	2.3
Q3506	6.0	8.9	5.3	Q3516	2.3	6.4	1.7
Q3508	2.4	8.9	1.8	Q3517	6.4	8.9	5.7
Q3509	1.6	GND	2.3			All voltage	es are in V.

BC BOARD IC VOLTAGE LIST

1.5

1.9

13

36

IC3	500	18	1.5	37	1.8	14	2.5	33	N/C	52	0.0	71	N/C	90	0.9
pin	volt	19	1.5	38	1.8	15	1.3	34	N/C	53	3.2	72	N/C	91	1.6
1	4.8	20	4.8	39	1.8	16	1.7	35	N/C	54	GND	73	N/C	92	3.2
2	2.0	21	0.0	40	0.0	17	1.9	36	N/C	55	GND	74	N/C	93	3.2
3	2.0	22	1.5	IC3	501	18	1.8	37	N/C	56	N/C	75	N/C	94	3.2
4	1.8	23	1.5	pin	volt	19	1.9	38	N/C	57	5.0	76	4.1	95	2.0
5	1.9	24	1.5	1	GND	20	1.8	39	N/C	58	GND	77	GND	96	2.6
6	4.8	25	1.5	2	1.5	21	0.9	40	GND	59	4.5	78	GND	97	0.0
7	1.6	26	1.5	3	1.5	22	1.3	41	0.0	60	4.5	79	0.0	98	0.5
8	1.4	27	2.4	4	1.5	23	1.4	42	0.0	61	N/C	80	GND	99	1.5
9	1.1	28	1.0	5	1.5	24	1.6	43	0.0	62	N/C	81	3.2	100	3.2
10	8.0	29	1.0	6	1.5	25	1.8	44	0.0	63	N/C	82	1.0	IC3	502
11	N/C	30	N/C	7	1.5	26	1.8	45	3.2	64	3.2	83	1.6	pin	volt
12	N/C	31	1.9	8	1.5	27	2.0	46	3.2	65	0.0	84	1.7	I	4.8
13	2.9	32	2.5	9	1.5	28	2.0	47	1.7	66	0.0	85	1.0	G	GND
14	0.5	33	1.3	10	1.0	29	GND	48	GND	67	N/C	86	0.0	0	3.3
15	N/C	34	1.7	11	2.8	30	1.4	49	GND	68	N/C	87	0.0	All voltage	es are in V.
16	1.5	35	0.0	12	24	31	1.5	50	14	69	N/C	88	1.3		

51

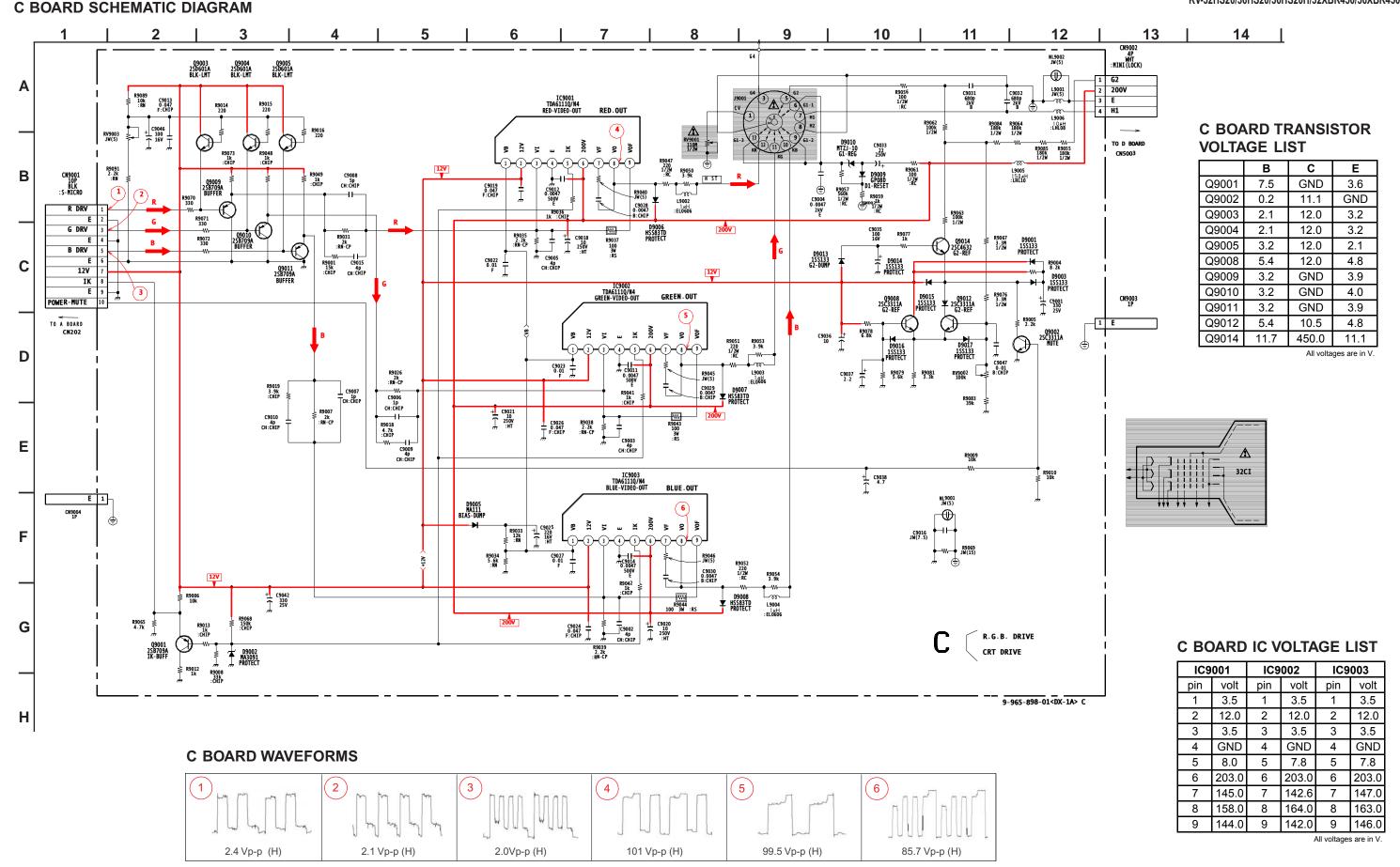
0.0

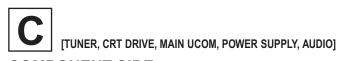
N/C

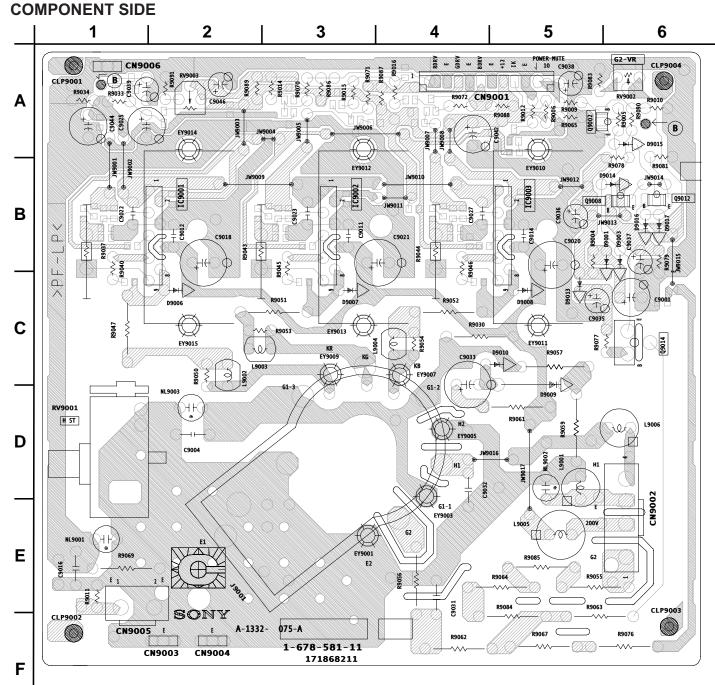
0.5

3.2

32

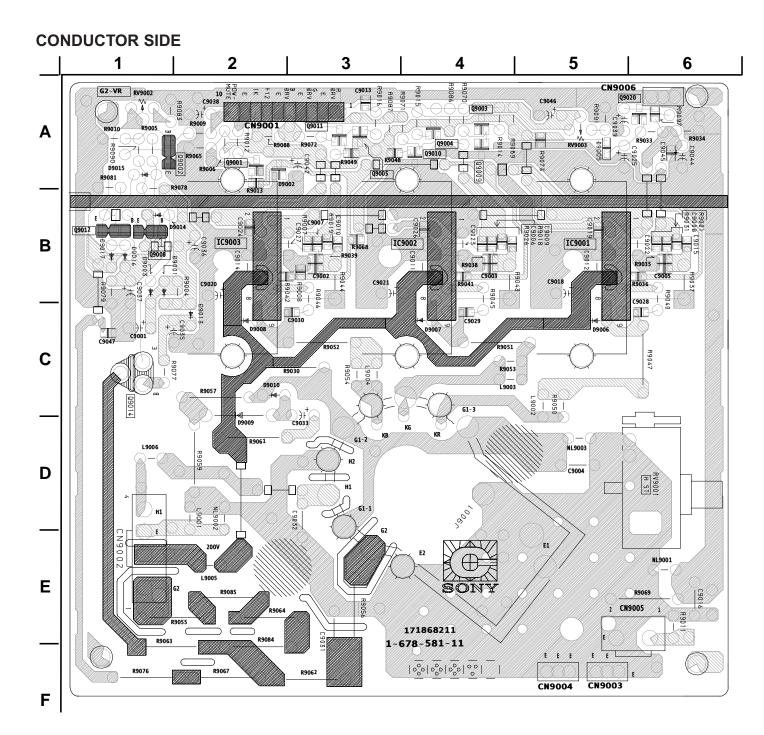






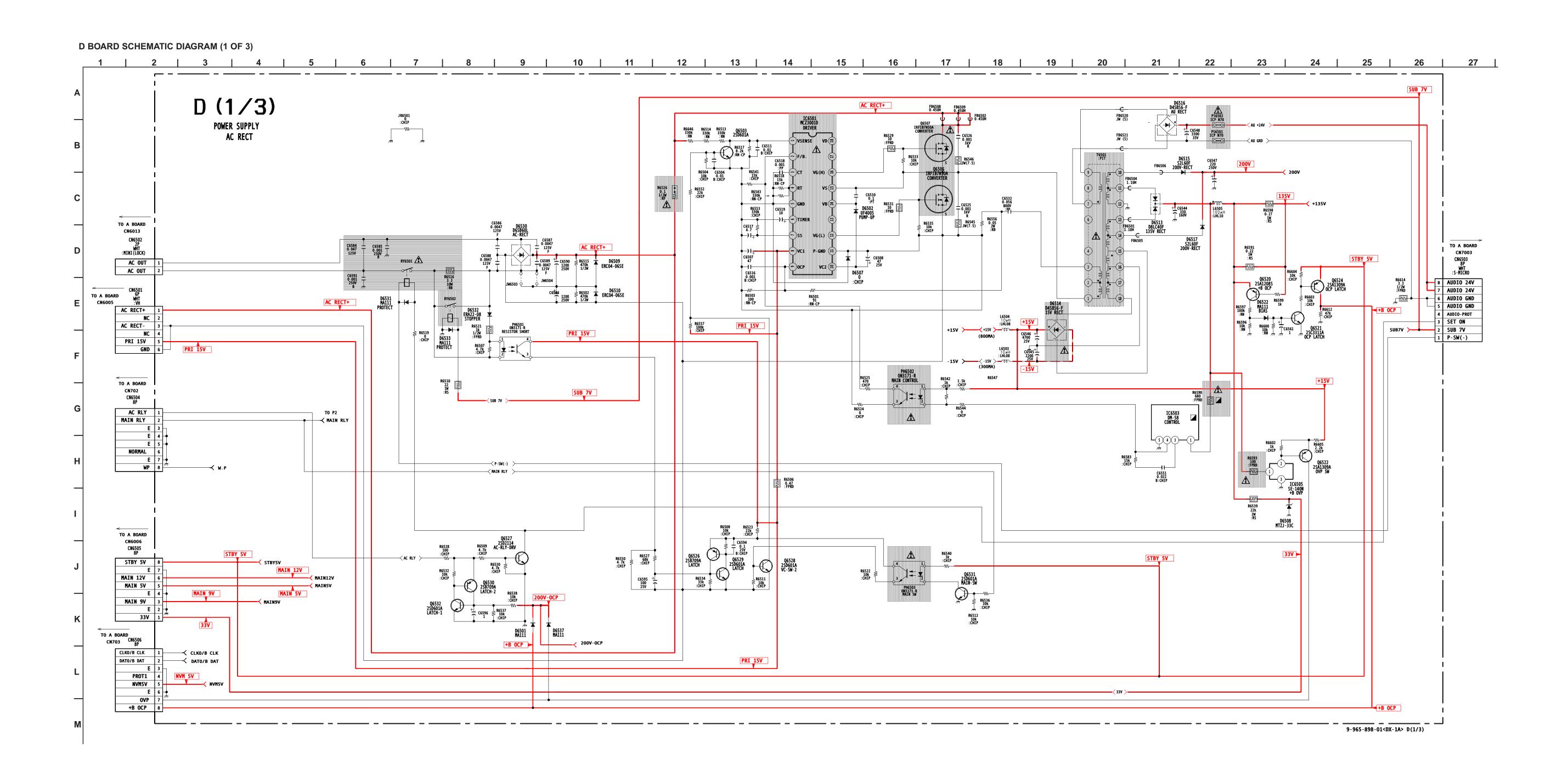
C BOARD LOCATOR LIST (COMPONENT SIDE)

DIO	DE	D9016	B-6
D9001	B-6	D9017	B-6
D9003	B-6	I	С
D9007	C-3	IC9001	B-2
D9008	C-5	IC9002	B-3
D9009	D-5	IC9003	B-5
D9010	C-5	TRANS	SISTOR
D9013	C-5	Q9002	A-5
D9014	B-6	Q9014	C-6
D9015	A-6		•



C BOARD LOCATOR LIST (COMPONENT SIDE)

DIC	DE	Q9004	A-4
D9002	A-2	Q9005	A-3
D9005	A-5	Q9008	B-1
D9006	C-5	Q9009	A-4
TRANS	SISTOR	Q9010	A-4
Q9001	A-2	Q9011	A-3
Q9003	A-4	Q9012	B-1



D BOARD WAVEFORMS

12 Vp-p (H)

1.0 KVp-p (H)

7.3 Vp-p (V)

1.3 Vp-p (H)

2.9 Vp-p (H)

152.4 Vp-p (H)

8.0 Vp-p (V)

1.9 Vp-p (V)

5.1 Vp-p (V)

1.7 Vp-p (V).

12.8Vp-p (H)

60.2 Vp-p (V)

94.6 Vp-p (H)

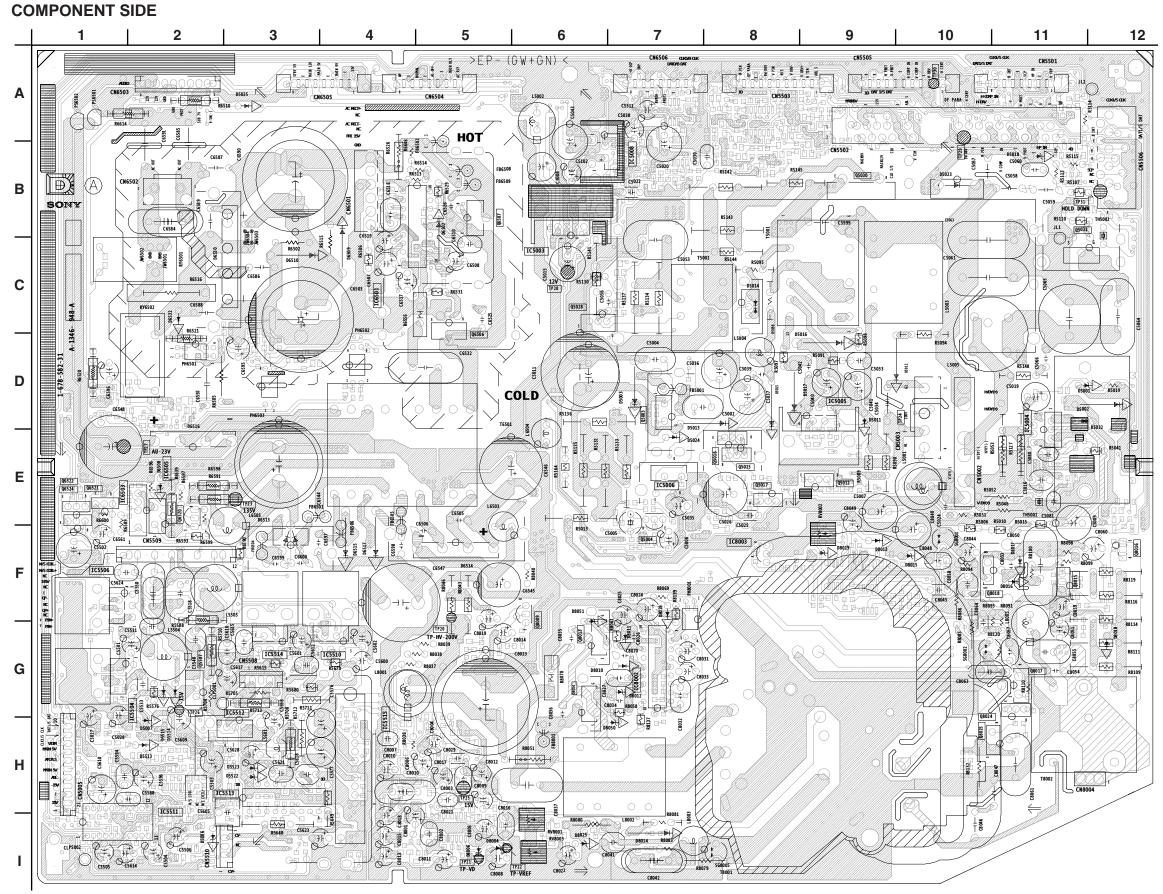
2.0 Vp-p (H)

1.5 Vp-p (V)

D BOARD SCHEMATIC DIAGRAM (2 OF 3) 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | C5617 C5616 T+ 47 0.1 T+ 16V :MPS MAIN 12V TO A BOARD CN706 CN5501 8P B INT CLK1/S CLK DAT1/S DAT HOLD DOWN HOLD DOWN 200 REG1 200 REG1 200 REG2 200 RE TO A BOARD CH5503 CN201 ABL S V TIM V DRV+ V DRVN/S V PIN 6 EW DRV 7 E 8 V PIN+ CN5509 12P RED :S-MICRO TO W BOARD CN9102 TO A BOARD CN203 CN5505 10P H CENT V COMP IN V PROT H PROT 25093 S199 25091 S199 D5012 RGP02-20EL G2-RECT D5025 R5164 D5024 D1NS4 0.47 D1NS4 :FFRD D (2/3) DY A H/V DRIVE H/V DY CAUTION ! | S501 | IC5004 HEAT SINK IS -15V CARE MUST BE TAKEN NOT TO R5043 4.7k 1.7k ≠ 1. ALLOW HEAT SINK TO TOUCH ANY OTHER COMPONENTS 9-965-898-01<DX-1A> D(2/3) CHS002 (+) AG / H (+)

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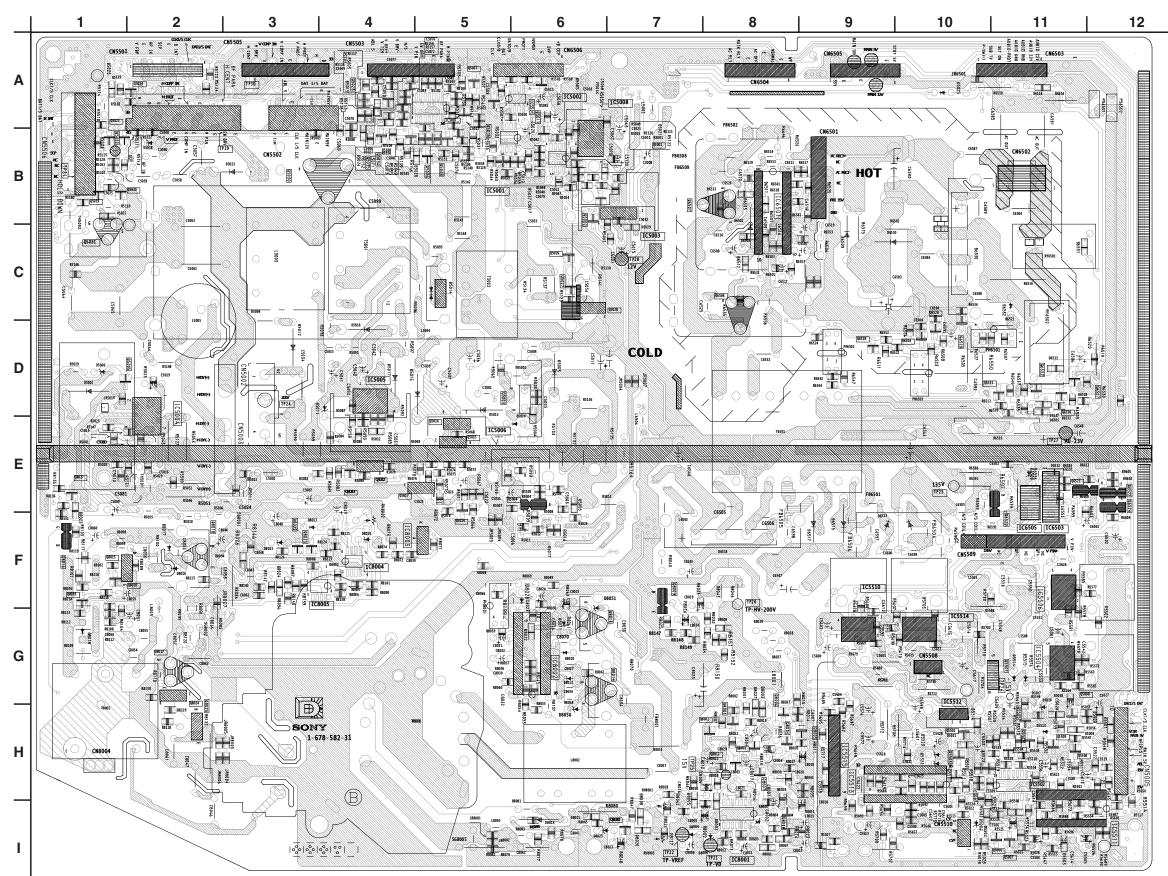
D BOARD SCHEMATIC DIAGRAM (3 OF 3) D (3/3) R8019 47k :CHIP DEFLECTION **L8002** 1 0 7 μH **⋖**200V-0CP +135V +135V R8145 100 ₹ :CHIP R8042 10k 1RN-CP AFC-PLS > C8021 0.01 :PT DF SW >--JR8007 0 : CHIP 9-965-898-01<DX-1A> D(3/3)



D BOARD LOCATOR LIST (COMPONENT SIDE)

DIO		IC	
D5001	D-12	IC5004	D-11
D5002	D-12	IC5005	D-9
D5003	D-7	IC5006	E-7
D5006	I-2	IC5504	H-2
D5007	H-2	IC5506	F-1
D5011	D-9	IC5510	G-4
D5012	D-10	IC5511	I-2
D5013	D-7	IC5512	H-3
D5014	C-8	IC5513	H-3
D5015	D-8	IC5514	G-3
D5016	C-9	IC5515	H-4
D5017	D-9	IC6501	C-4
D5018	B-11	IC6503	E-2
D5023	B-10	IC6505	E-2
D5024	E-7	IC8002	G-7
D5025	A-3	IC8003	F-8
D5513	H-2	TRANS	ISTOR
D5514	H-2	Q5003	D-7
D5515	H-2	Q5004	F-7
D5522	H-3	Q5030	B-9
D5523	H-3	Q5031	B-11
D6502	C-5	Q5507	G-2
D6508	E-2	Q6507	B-5
D6509	C-4	Q6521	E-1
D6510	C-3	Q6522	E-1
D6513	F-3	Q6524	E-1
D6514	G-6	Q8009	G-6
D6515	F-4	Q8013	G-6
D6516	D-2	Q8014	G-6
D6517	F-4	Q8015	F-11
D6532	C-2	Q8018	F-11
D8004	I-5		
D8006	I-5		
D8017	F-11		
D8018	G-12		
D8019	F-9		
D8025	I-6		

CONDUCTOR SIDE



D BOARD LOCATOR LIST (CONDUCTOR SIDE)

DIODE		D8021	I-6	Q5033	B-4
D5004	E-6	D8022	G-6	Q5034	B-4
D5005	F-6	D8026	G-5	Q5035	B-4
D5008	H-12	D8027	G-8	Q5036	B-5
D5009	H-12	IC	;	Q5037	A-5
D5010	H-11	IC5001	B-5	Q5501	H-10
D5019	B-3	IC5002	A-6	Q5502	H-10
D5021	B-6	IC5003	C-7	Q5503	H-10
D5026	B-4	IC5007	A-5	Q5504	H-11
D5027	B-4	IC5008	A-7	Q5505	H-11
D5028	B-4	IC5501	A-6	Q5506	H-12
D5029	C-7	IC5502	H-11	Q5508	H-11
D5031	H-10	IC8001	I-8	Q5509	H-11
D5032	E-4	IC8004	F-4	Q6503	D-10
D5501	I-12	TRANS	ISTOR	Q6506	D-7
D5502	I-11	Q5001	B-7	Q6520	F-11
D5503	I-12	Q5002	B-7	Q6526	C-10
D5505	A-6	Q5005	D-2	Q6527	D-11
D5506	H-11	Q5006	I-11	Q6528	D-9
D5507	B-5	Q5007	I-11	Q6529	D-11
D6501	D-11	Q5008	G-12	Q6530	D-11
D6507	B-8	Q5011	A-6	Q6531	D-10
D6522	E-11	Q5012	E-4	Q6532	D-11
D6530	C-10	Q5013	E-4	Q8001	H-8
D6531	C-11	Q5014	E-4	Q8002	H-8
D6533	D-11	Q5015	E-5	Q8003	H-8
D6537	E-11	Q5016	E-5	Q8004	H-8
D8002	I-8	Q5017	E-4	Q8007	H-8
D8003	I-8	Q5018	B-5	Q8008	I-8
D8005	I-8	Q5019	B-1	Q8010	I-7
D8007	I-8	Q5020	B-2	Q8016	F-1
D8009	G-7	Q5021	B-2	Q8019	F-1
D8010	G-6	Q5022	B-2	Q8020	F-2
D8013	F-4	Q5023	A-4	Q8022	F-4
D8014	I-6	Q5026	C-6	Q8023	F-4
D8016	F-2	Q5027	C-6		
D8020	I-7	Q5028	C-7		
				=	

D BOARD IC VOLTAGE LIST (1 OF 3)

IC6	IC6501		0.0	3	2.5
pin	volt	12	4.6	4	11.8
1	2.5	13	N/C	5	GND
2	1.8	14	163.6	IC6	505
3	2.2	15	153.5	pin	volt
4	2.5	16	157.6	1	134.9
5	GND	17	N/C	2	15.7
6	0.0	18	1.7	3	GND
7	4.0	IC6	503	All voltag	es are in V.
8	17.2	pin	volt		
9	GND	1	134.0		
10	10.4	2	N/C		

D BOARD TRANSISTOR VOLTAGE LIST (1 OF 3)

	В	С	Е
Q6503	0.0	2.5	0.0
Q6520	131.0	0.0	132.0
Q6521	0.0	2.1	GND
Q6522	15.7	GND	15.7
Q6524	2.1	0.4	4.9
Q6526	5.9	0.0	5.9
Q6527	0.6	0.0	0.0
Q6528	0.6	0.0	0.0
Q6529	0.0	5.9	0.0
Q6530	4.7	0.0	4.7
Q6531	0.6	0.0	GND
Q6532	0.0	4.7	GND

	D	G	S	
Q6506	4.7	149.2	0.0	
Q6507	154.4	303.3	150.0	

All voltages are in V.

D BOARD IC VOLTAGE LIST (2 OF 3)

IC5	001	5	0.2	14	0.6	12	GND	6	4.2	8	5.0
pin	volt	6	16.2	IC5	800	13	3.7	7	GND	9	5.0
1	11.0	7	1.2	pin	volt	14	0.0	8	4.2	10	12.1
2	11.0	IC5	005	1	9.1	IC5	504	9	1.9	11	4.0
3	1.7	pin	volt	2	12.0	pin	volt	10	4.4	12	5.0
4	GND	1	100.0	3	GND	1	4.2	11	4.4	13	5.0
5	4.0	2	99.7	4	5.0	2	4.2	12	6.4	14	0.5
6	4.0	3	95.3	5	5.2	3	GND	13	N/C	15	1.1
7	5.9	4	100.0		501	4	5.5	14	8.2	16	4.6
8	12.1	5	104.6	pin	volt	5	9.0	15	1.9	17	4.6
	002		006	1	GND		506	16	4.0	18	GND
pin	volt	pin	volt	2	5.0	pin	volt	17	4.9		514
1	0.1	l	7.8	3	5.0	1	4.3	18	N/C	pin	volt
2	6.0	G	GND	4	GND	2	4.3	19	3.6	1	0.3
3	3.8	0	6.3	5	4.6	3	-15.5	20	9.0	2	0.3
4	GND	VCC	2.7	6	4.6	4	4.4	21	0.9	3	-12.0
5	2.3	IC5	007	7	5.0	5	9.0	22	3.4	4	0.7
6	3.7	pin	volt	8	5.0	IC5	510	IC5	512	5	9.0
7	2.9	1	3.1	IC5	502	pin	volt	pin	volt	IC5	515
8	12.1	2	0.6	pin	volt	1	0.6		-15.8	pin	volt
IC5	003	3	12.1	1	5.4	2	0.6	G	GND	1	3.4
pin	volt	4	1.5	2	2.4	3	-11.9	0	-12.0	2	3.4
Ι	15.6	5	2.3	3	12.1	4	2.4	IC5	513	3	-9.6
G	GND	6	3.9	4	3.6	5	12.1	pin	volt	4	-15.3
0	12.1	7	2.8	5	3.4	IC5	511	1	4.5	5	GND
IC5	004	8	0.0	6	3.4	pin	volt	2	4.9	6	12.0
pin	volt	9	3.0	7	3.9	1	4.6	3	4.9	7	-14.0
1	1.2	10	1.4	8	1.0	2	4.6	4	4.6	8	2.7
2	15.6	11	6.1	9	1.0	3	4.0	5	5.0	9	GND
3	-12.6	12	GND	10	0.0	4	4.2	6	5.0	All voltag	es are in V.
4	-14.5	13	2.5	11	0.0	5	9.0	7	N/C		

D BOARD TRANSISTOR VOLTAGE LIST (2 OF 3)

	В	С	E		В	С	Е		В	С	Е		В	С	E
Q5001	2.9	12.0	3.3	Q5014	6.6	12.1	6.1	Q5027	5.2	0.0	5.2	Q5505	0.0	4.2	GND
Q5002	2.9	GND	3.3	Q5015	202.8	212.4	203.2	Q5030	132.0	0.0	GND	Q5506	0.3	3.6	GND
Q5003	127.4	134.1	23.3	Q5016	203.2	212.4	202.6	Q5033	10.0	1.4	10.5	Q5508	4.0	12.1	4.6
Q5004	132.0	0.0	133.0	Q5017	6.5	164.8	6.1	Q5034	0.0	1.4	GND	Q5509	4.0	GND	4.6
Q5005	-0.5	15.6	0.1	Q5018	0.6	1.9	GND	Q5035	0.0	2.5	GND			All voltage	es are in V.
Q5006	-12.0	1.0	-12.6	Q5019	3.7	12.1	2.9	Q5036	0.1	5.2	GND				
Q5007	4.4	-12.6	4.8	Q5020	3.7	GND	2.9	Q5037	3.1	12.1	GND		D	G	S
Q5008	11.9	0.0	10.7	Q5021	0.4	9.0	0.5	Q5501	2.4	12.1	3.7	Q5028	5.2	33.5	0.0
Q5011	0.1	3.9	GND	Q5022	0.4	GND	1.1	Q5502	0.5	5.4	GND	Q5031	2.9	12.6	GND
Q5012	3.7	97.7	3.2	Q5023	0.4	3.9	GND	Q5503	0.5	2.4	GND	Q5507	5.4	6.9	GND
Q5013	3.1	GND	3.7	Q5026	5.2	12.1	5.2	Q5504	0.0	4.0	GND		•	All voltage	es are in V.

D BOARD IC VOLTAGE LIST (3 OF 3)

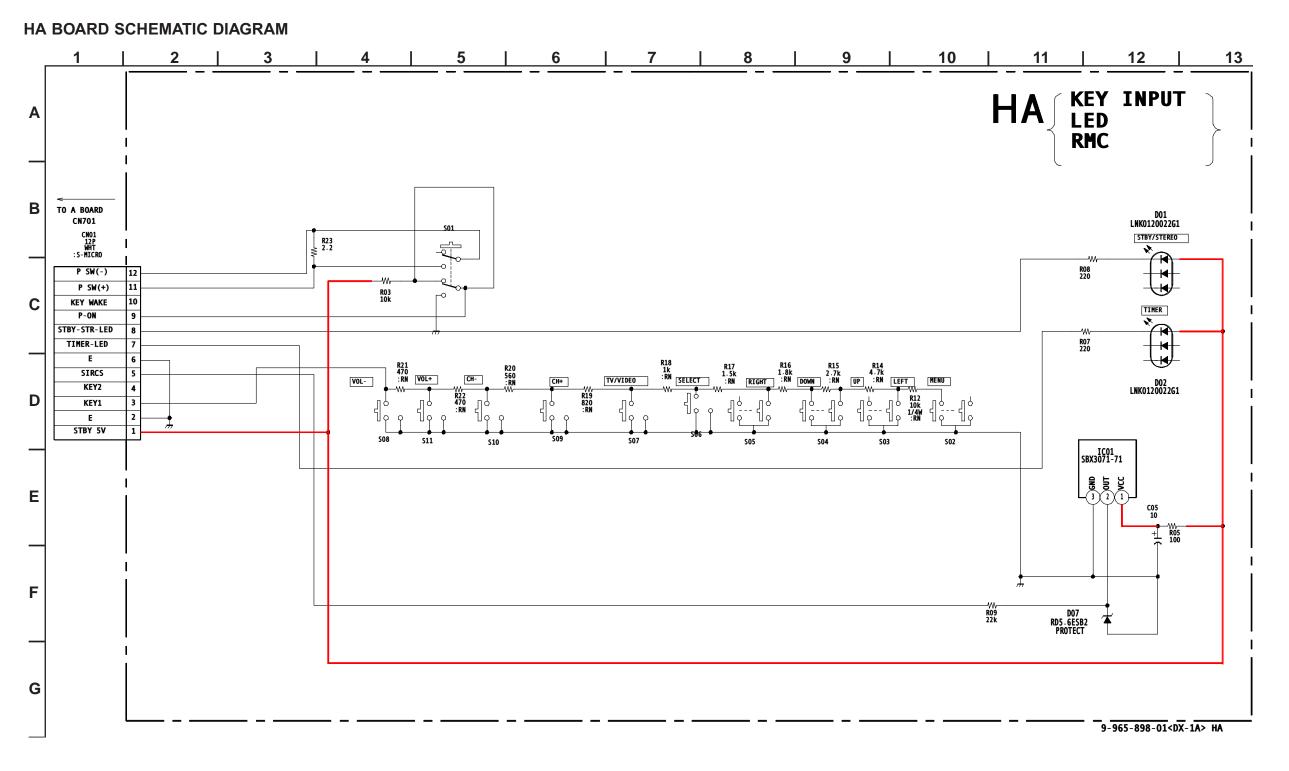
IC8	001	10	5.0	5	GND	16	99.0	2	0.9
pin	volt	11	0.1	6	0.0	17	N/C	3	0.9
1	0.1	12	GND	7	4.7	18	198.0	4	GND
2	0.0	13	0.1	8	15.6	IC8	003	5	7.1
3	15.6	14	0.1	9	0.0	pin	volt	6	7.1
4	5.0	IC8	002	10	10.4	1	2.4	7	7.1
5	0.0	pin	volt	11	GND	2	GND	8	15.2
6	5.0	1	1.6	12	4.5	3	11.0	All voltag	ges are in V.
7	0.0	2	1.8	13	N/C	IC8	004		
8	5.0	3	2.2	14	104.8	pin	volt		
9	4.2	4	2.5	15	94.8	1	14.0		

D BOARD TRANSISTOR VOLTAGE LIST (3 OF 3)

	В	С	E
Q8001	0.1	0.0	GND
Q8002	0.0	1.6	GND
Q8003	0.2	1.6	GND
Q8004	0.0	1.6	GND
Q8007	0.6	0.0	GND
Q8008	0.6	0.0	GND
Q8009	196.0	0.0	196.0
Q8010	2.1	0.0	GND
Q8015	0.5	0.0	GND
Q8016	134.5	134.7	135.1
Q8018	-5.5	94.4	GND
Q8019	3.5	0.0	GND
Q8020	0.0	0.5	GND
Q8022	4.6	GND	4.9
Q8023	4.6	15.5	4.9

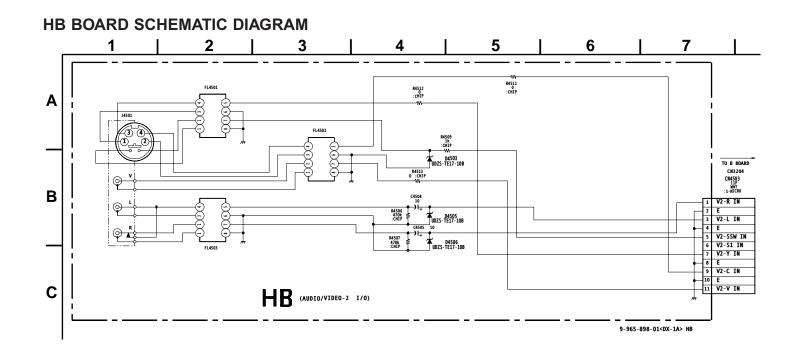
	D	G	S
Q8013	4.6	94.8	GND
Q8014	99.0	198.0	93.2

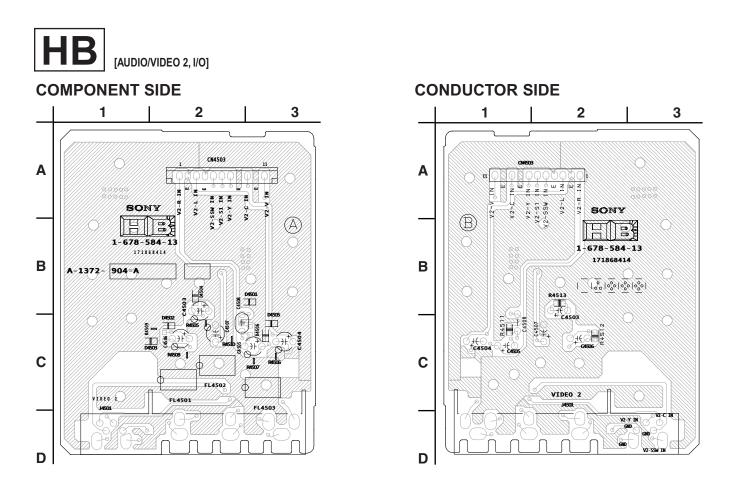
All voltages are in V.



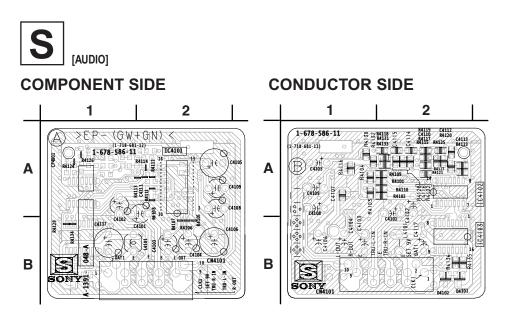
HA BOARD IC VOLTAGELIST

IC01							
pin volt							
1	4.9						
2	0.0						
3	4.3						
All voltag	es are in V.						



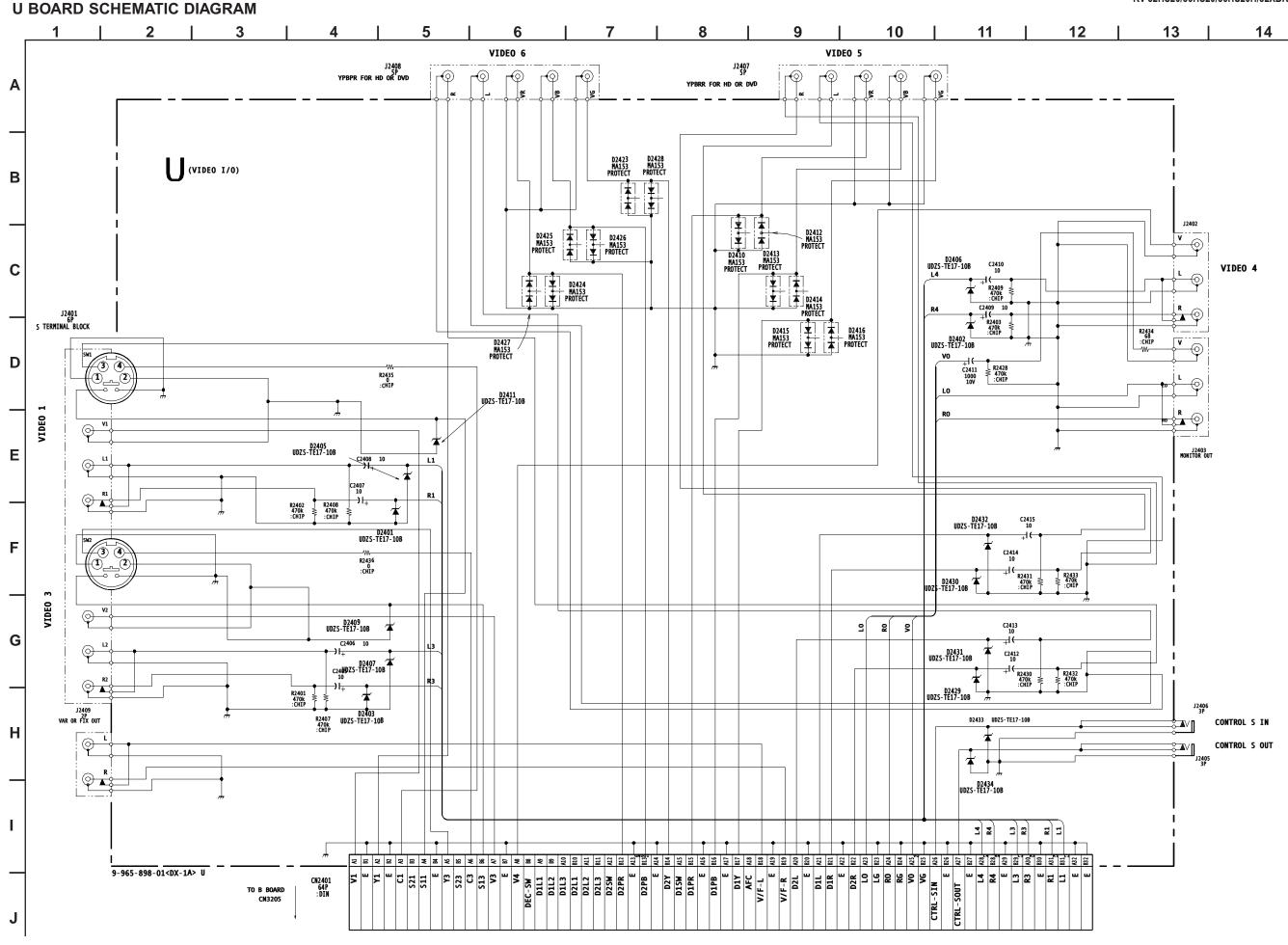


S BOARD SCHEMATIC DIAGRAM 3 6 Α S(AUDIO) R4123 10k :CHIP В IC4101 NJH2180H R4131 2 · 2M : CHIP W-R4132 33k : CHIP C C4114 0.01 B:CHIP ≸ R4130 1.5k :CHIP ₹ R4107 \$ 100k :CHIP * R4135 47 :CHIP SET 9V DAT1 CLK1 D R4129 10k :CHIP IC4102 NJU4066M R4101 8.2k :CHIP Ε C4101 + C4102 1 9-965-898-01<DX-1A> S



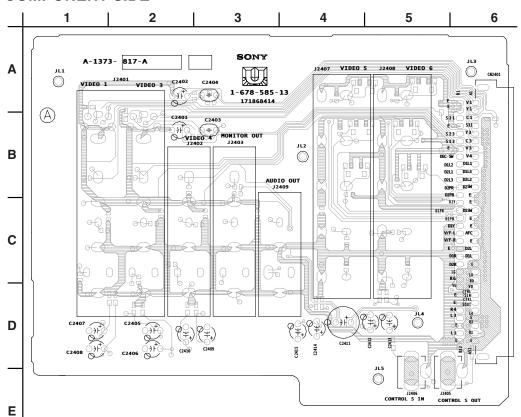
S BOARD IC VOLTAGE LIST

IC4101		22	4.5	13	8.6
pin	volt	23	4.5	14	9.0
1	8.4	24	4.5	IC4	103
2	0.1	25	4.5	pin	volt
3	0.1	26	4.5	1	0.1
4	4.5	27	4.5	2	0.1
5	GND	28	NC	3	8.6
6	9.0	29	4.5	4	0.3
7	NC	30	4.5	5	0.3
8	NC	IC4	102	6	NC
9	NC	pin	volt	7	NC
10	NC	1	4.5	8	GND
11	4.5	2	2 4.5 9		NC
12	4.5	3	4.5	10	NC
13	4.5	4	4.5	11	GND
14	4.5	5	8.6	12	GND
15	4.5	6	0.3	13	9.0
16	4.5	7	GND	14	4.5
17	4.5	8	4.5	15	4.5
18	4.5	9	4.5	16	9.0
19	4.5	10	4.5	All voltage	s are in V.
20	4.5	11	4.5		
21	4.5	12	0.3		

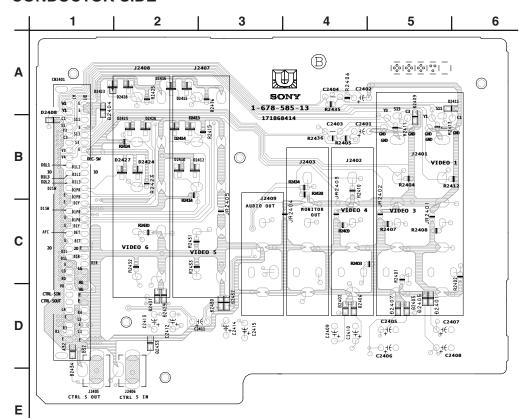




COMPONENT SIDE

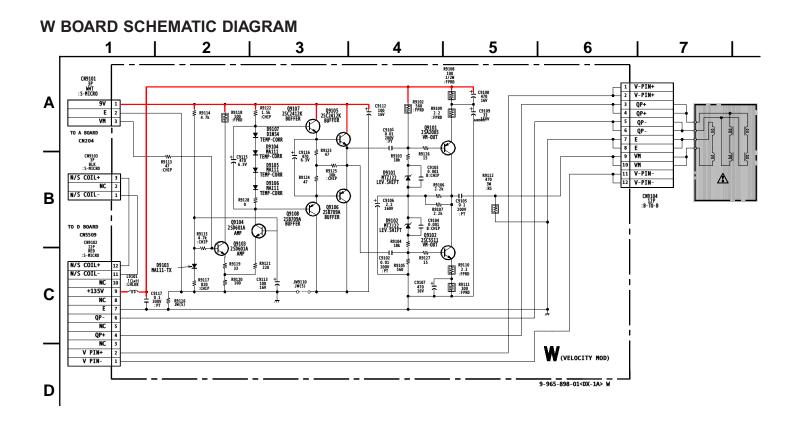


CONDUCTOR SIDE



U BOARD LOCATOR LIST

DIO	DE	D2416	A-2
D2401	D-5	D2423	A-1
D2402	D-4	D2424	B-2
D2403	D-5	D2425	B-2
D2405	D-5	D2426	B-2
D2406	D-4	D2427	B-2
D2407	D-5	D2428	A-2
D2409	A-5	D2429	D-2
D2410	B-2	D2430	D-3
D2411	A-5	D2431	D-2
D2412	B-2	D2432	D-3
D2413	B-2	D2433	D-2
D2414	B-2	D2434	D-1
D2415	A-2		



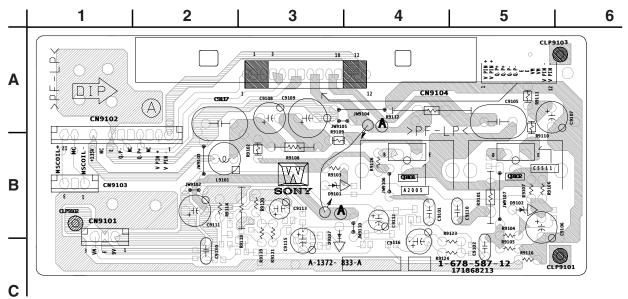
W BOARD TRANSISTOR VOLTAGE LIST

	В	С	E
Q9101	133.8	67.5	134.3
Q9102	1.3	67.5	0.8
Q9103	2.9	0	9.0
Q9104	9.0	5.1	0
Q9105	5.1	9.0	4.7
Q9106	4.1	GND	4.7
Q9107	5.9	9.0	5.1
Q9108	3.5	GND	4.1
Q9109	2.9	GND	3.5

All voltages are in V.



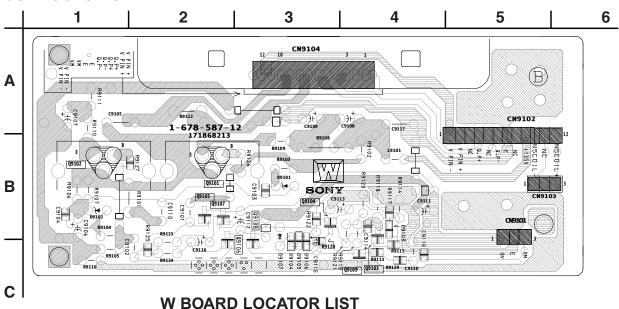
COMPONENT SIDE



W BOARD LOCATOR LIST (COMPONENT SIDE)

DIC	DE	TRANS	SISTOR
D9101 B-3		Q9101	B-4
D9102	D9102 B-5		B-5
D9107	C-3		

CONDUCTOR SIDE



W BOARD LOCATOR LIST (CONDUCTOR SIDE)

DIC	DE	TRANS	SISTOR	Q9107	B-2
D9103	B-4	Q9103	C-4	Q9108	B-3
D9104	C-3	Q9104	B-3		
D9105	C-3	Q9105	B-2		
D9106	C-3	Q9106	B-3		

5-4. SEMICONDUCTORS

5-4. SEMICONDO				
HAAAAAAAAA HUUUUUUUU 1 TOP VIEW 8pin	BR24C04F-WE2 BR24C08 NJM2901M-TE2 NJM2903M NJM2904M NJM4558E(TE2) TC7WU04FU(TE12R) TDA2822D	HARRARARARA TOP VIEW 14pin M52055FP MC74HC4066F TLC2932IPW TLC2933IPWR-12	16pin CXD2085M-T4 SN74LV4053ANSR	ARRHARARARA HUHHHHHHHH 1 TOP VIEW 28pin CXD2057M-T6 TEA6422DT
HAHAHAHAHAHAHAHA 1 TOP VIEW 32pin BH3868AFS-E2	HHHHHHHHHH TOP VIEW 50pin MSM56V16160F-10TS-K	HARRARAHAH HUHHHHHHHHH TOP VIEW 86pin MB81F643242B-10FN	5pin PST9120NL PST9145NL TC7SET08FU(TE85L)	MARKING SIDE VIEW
TOP VIEW 14pin IR2112	1 TOP VIEW 18pin MCZ3001D	TOP VIEW 22pin CXA2026AS	32pin CXD2073Q-T4	######################################
1 TOP VIEW 64pin TLC5733AIPM	208pin CXD2090Q	240pin CXD9509AQ	51 52 64 ° TOP \	20 19 VIEW
INDEX TOP VIEW	CXA2150Q	IND	51 50 EX MB94918- M306V2ME	

PC123FV2	NJM79M12FA	LA6500-FA	DTA114EKA-T146 DTA143EK DTA144EKA-T146 DTC114EK	DTC114TKA-T146 DTC143EKA-T146 DTC144EKA-T146 2SA1162-G 2SA1226 2SC1623-L5L6 2SC4081-R 2SD601A-Q 2SD601A-Q-TX 2SD601A-S
B _C _E 2SA2005 2SC5511	S D G G D S S S S S S S S S S S S S S S	2SK2036(TE85L)	IRF614 IRF1644 IMB12-140-F153A	TDA6111Q/N4
B C E 2SC4632LS-CB7	PQ07VZ012P	PQ09RD21 PQ05RF21 PQ09RF21 PQ12RF21 PQ30RF21	STV9379	E C B
UPC2412AHF	1 2 3 2SC3997S-SONY	UPC1093J		DE 2SA1175-HFE 2SC3311A-QRSTA
G D S IRFI9630GS	LETTER SID	2SC2688-LK 2SC3840(3)	E C B	2SA1208S-TP

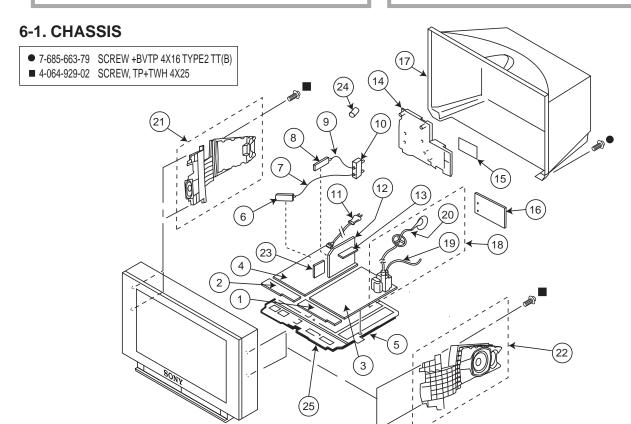
SECTION 6: EXPLODED VIEWS

Components not identified by a part number or description are not stocked because they are seldom required for routine service.

The component parts of an assembly are indicated by the reference numbers in the far right column of the parts list and within the dotted lines of the diagram. * Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.

NOTE: The components identified by shading and \triangle mark are critical for safety. Replace only with part number specified.

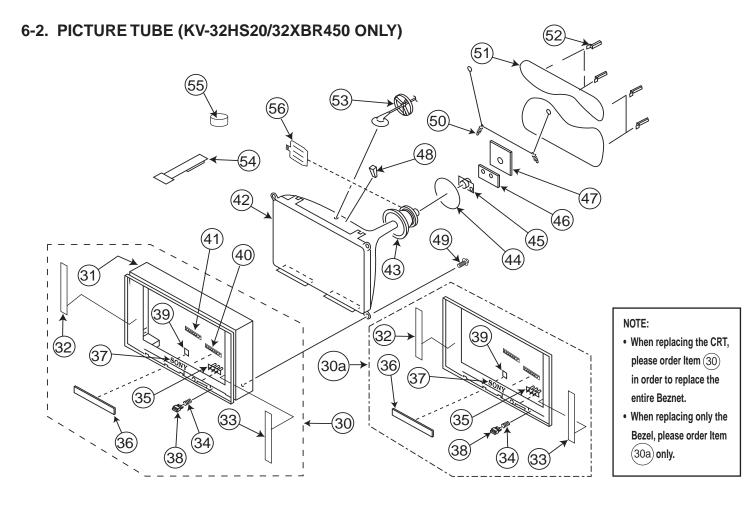
NOTE: Les composants identifies par un trame et une marque 🛆 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



	REF.NO.	PART NO.	DESCRIPTION		REF.NO.	PART NO.	DESCRIPTION	[Assembly Includes]
*	1	A-1372-970-A	HA BOARD, MOUNTED		15	4-077-820-01	LABEL, TERMINAL	
*	2	A-1372-904-A	HB (COM) BOARD, MOUNTED	*	16	A-1373-817-A	U (COM) BOARD, MOUNTED	1
*	3	A-1346-947-A	D BOARD, COMPLETE		17	4-075-833-01	COVER, REAR	
			(KV-32HS20/32XBR450 ONLY)				(ALL EXCEPT KV-32HS20/32	XBR450)
			The high voltage leads associated with the FBT on this board are not		17	4-075-821-01	COVER, REAR	
	_		included and must be ordered separately (see 19-20).				(KV-32HS20/32XBR450 ONLY	')
*	3	A-1346-948-A	D BOARD, COMPLETE	<u> </u>	18	1-453-346-11	FBT ASSY NX-6000//J1J4	19-20
			(ALL EXCEPT KV-32HS20/32XBR450)					
			The high voltage leads associated with the FBT on this board are not included and must be ordered separately (see 19-20).	<u> </u>	19	1-900-805-19	WIRE ASSY, FOCUS HV	
			included and mast be ordered separately (see 15 20).	<u> </u>	20	1-251-715-22	CAP ASSY, HIGH-VOLTAGE	
*	4	A-1299-481-A	A BOARD, COMPLETE		21	1-529-812-31	SPEAKER BOX LEFT	
*	5	4-075-828-01	BRACKET, MAIN				(ALL EXCEPT KV-32HS20/32	XBR450)
\triangle	6	8-598-501-30	TUNER (BTF-FA402)		21	1-529-811-31	SPEAKER BOX LEFT	,
*	7	1-555-400-00	CABLE, PIN				(KV-32HS20/32XBR450 ONLY	')
<u>/</u> !\	8	8-598-542-20	TUNER (BTF-WA412)				•	•
	Ü	0 000 0 12 20	TOTALITY (DIT TIMETE)		22	1-529-812-41	SPEAKER BOX RIGHT	
*	9	1-557-009-31	CABLE, P-P				(ALL EXCEPT KV-32HS20/32	XBR450)
	10	1-771-787-11	SWITCH, RF ANTENNA		22	1-529-811-41	SPEAKER BOX RIGHT	,
<u>/i\</u>	11	1-790-316-21	CORD, AC POWER(WITH CONNECTOR)				(KV-32HS20/32XBR450 ONLY	')
*	12	A-1136-200-A	B BOARD, COMPLETE	*	23	A-1391-048-A	S BOARD, MOUNTED	,
*	13	A-1136-117-A	BC BOARD, COMPLETE		24	1-500-386-11	FILTER, CLAMP (FERRITE C	ORE)
*/!\		4-075-829-01	BRACKET, U	*	25	4-075-830-02	BRACKET, H	,
<u> </u>	1 1 7	1 010 020 01	DIVIONE I, O	1			- /	

NOTE: The components identified by shading and \triangle mark are critical for safety. Replace only with part number specified.

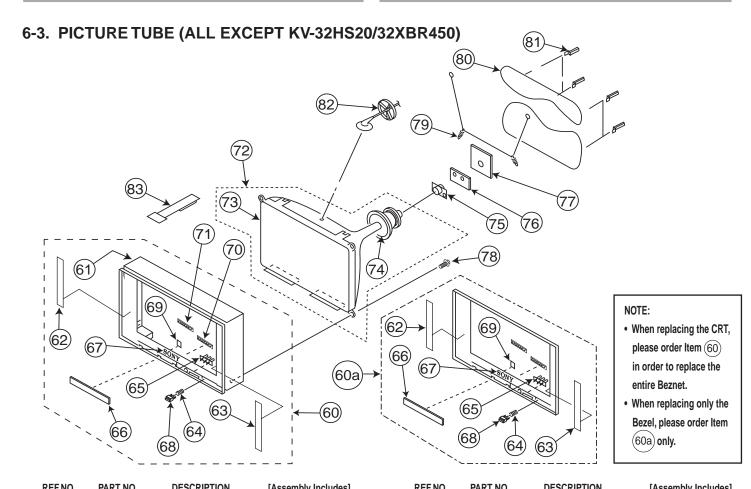
NOTE: Les composants identifies par un trame et une marque \triangle sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



_	REF.NO.	PART NO.	DESCRIPTION	[Assembly Includes]		REF.NO.	PART NO.	DESCRIPTION
	30	A-1017-303-A	BEZNET COMPLETE ASS (KV-32XBR450 ONLY)	SY 31-39		38	4-075-824-21	BUTTON, POWER (KV-32XBR450 ONLY)
	30	X-4038-873-1	BEZNET ASSY (KV-32HS20 ONLY)	31-39		38	4-075-824-31	BUTTON, POWER (KV-32HS20 ONLY)
	30a	A-1501-900-A	BEZEL COMPLETE ASSY (KV-32XBR450 ONLY)	32-39		39 40	4-076-673-03 4-075-825-01	DAMPER, DOOR BUTTON, MULTI
	30a	X-4038-979-1	BEZEL ASSY	34-39		41	4-075-826-01	BUTTON, MENU
		4.075.000.04	(KV-32HS20 ONLY)		<u>^</u>	42	8-735-047-05	CRT 34RSN
	31	4-075-820-01	CABINET		<u> </u>	42	0 454 540 04	DV V24DCC V
	00		ODILL ODEAKED (L)		<u> </u>	43	8-451-512-21	DY Y34RSC-Y
	32		GRILL, SPEAKER (L)		\wedge	44	1-451-498-21	COIL, NA ROTATION
	00		(KV-32XBR450 ONLY)		<u> </u>	45	8-453-009-21	NA325-M2
	33		GRILL, SPEAKER (R)			46	A-1372-833-A	W BOARD, MOUNTED
			(KV-32XBR450 ONLY)			47	A-1332-075-A	C BOARD, MOUNTED
	34	4-042-593-11	SPRING, COMPRESSION					
	35	4-075-823-01	GUIDE, LED			48	4-053-005-01	SPACER, DY
						49	4-046-765-12	SCREW, TAPPING 7+CROWN WASHER
	36	4-075-822-21	DOOR, PAINTED		^	50	4-036-329-01	SPRING (B), TENSION
			(KV-32XBR450 ONLY)		<u> </u>	51	1-416-827-21	COIL, DEGAUSSING
	36	4-075-822-31	DOOR, PAINTED (KV-32HS20 ONLY)			52	4-065-895-11	HOLDER, DGC
	37	3-704-179-81	EMBLEM (NO.9), SONY			53	3-704-372-71	HOLDER, HV CABLE
			(KV-32XBR450 ONLY)			54	4-062-047-02	PIECE A(110), CONV CORRECT
	37	3-704-179-02	EMBLEM (NO.9), SONY			55	1-452-885-11	MAGNET, LANDING
		2.0002	(KV-32HS20 ONLY)			56	4-057-714-01	PIECE TLH CONVERGENCE
			,		l			

NOTE: The components identified by shading and \triangle mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies par un trame et une marque 🛆 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF.NO.	PART NO.	DESCRIPTION [Assert	mbly Includes]	REF.NO.	PART NO.	DESCRIPTION [A	Assembly Includes]
60	A-1017-301-A	BEZNET COMPLETE ASSY (KV-36XBR450/36XBR450H ONL)	61-69 ()	68	4-075-824-31	BUTTON, POWER (KV-36HS20/36HS20H ONLY)	
60	X-4038-872-1	BEZNET ASSY	61-69	69	4-076-673-03	DAMPER, DOOR	
		(KV-36HS20/36HS20H ONLY)		70	4-075-825-01	BUTTON, MULTI	
60a	A-1501-902-A	BEZEL COMPLETE ASSY	62-69	71	4-075-826-01	BUTTON, MENU	
		(KV-36XBR450/36XBR450H ONL)	()	<u> </u>	8-735-048-62	ITC 38RSN-C1	73-74
60a	X-4038-981-1	BEZEL ASSY	64-69			(KV-36HS20/36XBR450 ONLY)	
		(KV-36HS20/36HS20H ONLY)					
61	4-075-832-01	CABINET		<u> </u>	8-735-081-62	ITC 38RSN-C1M (KV-36HS20H/36XBR450H ON	73-74 ILY)
62		GRILL, SPEAKER (L)		<u> </u>	8-735-048-05	CRT 38RSN	
		(KV-36XBR450/36XBR450H ONL)	()			(KV-36HS20/36XBR450 ONLY)	
63		GRILL, SPEAKER (R)		<u> </u>	8-735-081-05	CRT 38RSN	
		(KV-36XBR450/36XBR450H ONL)	()			(KV-36HS20H/36XBR450H ON	ILY)
64	4-042-593-11	SPRING, COMPRESSION		<u> </u>	8-451-516-11	DY Y38RSC-X	
65	4-075-823-01	GUIDE, LED		<u> </u>	8-453-009-21	NA325-M2	
00	4 075 000 04	DOOD DAINTED		* 76	A 4070 000 A	W DOADD MOUNTED	
66	4-075-822-21	DOOR, PAINTED	Λ	/0	A-1372-833-A	W BOARD, MOUNTED	
00	4 075 000 04	(KV-36XBR450/36XBR450H ONL)	()	11	A-1332-075-A	C BOARD, MOUNTED	WACHED
66	4-075-822-31	DOOR, PAINTED		78	4-046-765-12	SCREW, TAPPING 7+CROWN	WASHER
67	3-704-179-81	(KV-36HS20/36HS20H ONLY)		79 <u>↑</u> 80	4-036-329-01	SPRING (B), TENSION	
07	3-704-179-01	EMBLEM (NO.9), SONY	Λ	∠!∆ 00	1-416-828-41	COIL, DEGAUSS	
67	3-704-179-02	(KV-36XBR450/36XBR450H ONL) EMBLEM (NO.9), SONY	1)	81	4-065-895-11	HOLDER, DGC	
UI .	J-10 1 -113-02	(KV-36HS20/36HS20H ONLY)		82	3-704-372-71	HOLDER, HV CABLE	
68	4-075-824-21	BUTTON, POWER		83	4-062-047-02	PIECE A(110), CONV CORRE	CT.
00	1 -010-02 4- 21	(KV-36XBR450/36XBR450H ONL)	()	03	7-002-047-02	TILOL A(TIO), CONV CONNE	O1

SECTION 7: ELECTRICAL PARTS LIST

NOTE: The components identified by shading and \triangle mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components in this manual identified by the following symbol:

indicate parts that have been carefully factory-selected to satisfy regulations regarding X-ray radiation for each set.

Should replacement be required for one of these components, replace only with the value originally used.

RESISTORS

- · All resistors are in ohms
- F: nonflammable
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When ordering parts by reference number, please include the board name.

REF.NO.	PART NO.	DESCRIPTION	VALUE	S		REF.NO.	PART NO.	DESCRIPTION	VALUE	S	
						C3531	1-165-319-11	CERAMIC CHIP	0.1µF		50V
BU						C3532	1-126-964-11	ELECT	10μF	20%	50V
						C3533	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
*	A-1136-117-A	BC BOARD, COMP	LETE			C3534	1-126-960-11	ELECT	1µF	20%	50V
						C3535	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
	CAPACITOR										
00500	4 405 040 44	OEDAMIO OLUD	0.4		F0\/	C3536	1-126-960-11	ELECT	1μF	20%	50V
C3500	1-165-319-11	CERAMIC CHIP	0.1µF	F 0/	50V	C3537	1-126-964-11	ELECT	10μF	20%	50V
C3501	1-163-231-11	CERAMIC CHIP	15pF	5%	50V	C3538	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C3502	1-165-319-11	CERAMIC CHIP	0.1µF	5 0/	50V	C3539	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C3504	1-163-102-00	CERAMIC CHIP	24pF	5%	50V	C3541	1-163-106-00	CERAMIC CHIP	36pF	5%	50V
C3505	1-163-102-00	CERAMIC CHIP	24pF	5%	50V						
00500	4 405 040 44	OEDAMIO OLUD	0.4 5		E0) /	C3542	1-126-964-11	ELECT	10μF	20%	50V
C3506	1-165-319-11	CERAMIC CHIP	0.1µF		50V	C3543	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C3507	1-165-319-11	CERAMIC CHIP	0.1µF		50V	C3546	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C3509	1-163-038-91	CERAMIC CHIP	0.1µF	-0/	25V	C3547	1-126-934-11	ELECT	220µF	20%	10V
C3510	1-163-131-00	CERAMIC CHIP	390pF	5%	50V	C3548	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C3511	1-163-038-91	CERAMIC CHIP	0.1µF		25V						
00510	4 405 040 44	0504440 0140	0.4.5		E0) /	C3549	1-104-660-91	ELECT	47µF	20%	16V
C3512	1-165-319-11	CERAMIC CHIP	0.1µF		50V	C3550	1-163-031-91	CERAMIC CHIP	0.01µF		50V
C3513	1-216-295-91	SHORT	0.04 =		E0) /	C3551	1-104-660-91	ELECT	47µF	20%	16V
C3514	1-163-031-91	CERAMIC CHIP	0.01µF		50V	C3552	1-163-031-91	CERAMIC CHIP	0.01µF		50V
C3515	1-165-319-11	CERAMIC CHIP	0.1µF		50V	C3553	1-163-031-91	CERAMIC CHIP	0.01µF		50V
C3516	1-165-319-11	CERAMIC CHIP	0.1µF		50V						
00547	4 400 004 44	FLEOT	000 5	000/	0.01/	C3554	1-104-660-91	ELECT	47µF	20%	16V
C3517	1-126-924-11	ELECT	330µF	20%	6.3V	C3555	1-126-934-11	ELECT	220µF	20%	10V
C3518	1-163-038-91	CERAMIC CHIP	0.1µF		25V	C3556	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C3519	1-165-319-11	CERAMIC CHIP	0.1µF		50V	C3557	1-163-031-91	CERAMIC CHIP	0.01µF		50V
C3520	1-165-319-11	CERAMIC CHIP	0.1µF	=0/	50V	C3558	1-104-660-91	ELECT	47µF	20%	16V
C3521	1-163-237-11	CERAMIC CHIP	27pF	5%	50V						
00500	4 404 000 04	FLEOT	47. 5	000/	40)/	C3559	1-163-031-91	CERAMIC CHIP	0.01µF		50V
C3522	1-104-660-91	ELECT	47µF	20%	16V	C3560	1-104-660-91	ELECT	47μF	20%	16V
C3523	1-165-319-11	CERAMIC CHIP	0.1µF		50V	C3561	1-163-031-91	CERAMIC CHIP	0.01µF		50V
C3524	1-165-319-11	CERAMIC CHIP	0.1µF		50V	C3562	1-163-031-91	CERAMIC CHIP	0.01µF		50V
C3525	1-163-038-91	CERAMIC CHIP	0.1µF		25V	C3563	1-104-660-91	ELECT	47µF	20%	16V
C3526	1-165-319-11	CERAMIC CHIP	0.1µF		50V						
00507	4 405 040 44	OEDAMIO OLUB	0.4. =		F0\/	C3564	1-104-660-91	ELECT	47µF	20%	16V
C3527	1-165-319-11	CERAMIC CHIP	0.1µF		50V	C3565	1-163-031-91	CERAMIC CHIP	0.01µF		50V
C3528	1-165-319-11	CERAMIC CHIP	0.1µF		50V	C3566	1-163-031-91	CERAMIC CHIP	0.01µF		50V
C3529	1-165-319-11	CERAMIC CHIP	0.1µF	222/	50V						
C3530	1-104-660-91	ELECT	47µF	20%	16V						

^{*} Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.



REF.NO.	PART NO.	DESCRIPTION	VALUES	REF.NO.	PART NO.	DESCRIPTION	VALU	ES	
	CONNECTOR			Q3505	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX		
				Q3506	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX		
CN3500	1-691-632-21	CONNECTOR, BOAR	D TO BOARD 15P	Q3508	8-729-422-27	TRANSISTOR 2SD60			
				Q3509	8-729-424-02	TRANSISTOR 2SB70			
	FERRITE BEAD			Q3510	8-729-424-02	TRANSISTOR 2SB70			
FB3500	1-414-234-22	FERRITE	OμH						
FB3501	1-414-234-22	FERRITE	0μΗ	Q3511	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX		
FB3502	1-414-234-22	FERRITE	0μH	Q3512	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX		
FB3503	1-414-234-22	FERRITE	0μH	Q3513	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX		
FB3504	1-414-234-22	FERRITE	0μH	Q3514	8-729-424-02	TRANSISTOR 2SB709	9A-QRS-TX		
1 00004	1-414-204-22	ILIMIL	υμ ι ι	Q3515	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX		
FB3505	1-414-234-22	FERRITE	0μH	02540	0.700.400.07	TRANSISTOR SORGO	AA ODO TV		
FB3506	1-414-234-22	FERRITE	0μΗ	Q3516	8-729-422-27	TRANSISTOR 2SD60			
FB3507	1-414-234-22	FERRITE	0μΗ	Q3517	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-1X		
FB3508	1-414-234-22	FERRITE	0μH						
FB3509	1-414-234-22	FERRITE	0μΗ		RESISTOR				
				R3503	1-216-017-91	RES-CHIP	47	5%	1/10W
	<u>FILTER</u>			R3504	1-216-295-91	SHORT			
EI 2500	1 220 040 21	FILTER, LOW PASS		R3505	1-216-295-91	SHORT			
FL3500	1-239-848-21	•		R3506	1-216-295-91	SHORT			
FL3501	1-239-848-21	FILTER, LOW PASS		R3507	1-216-295-91	SHORT			
FL3502	1-239-848-21	FILTER, LOW PASS							
FL3503	1-239-848-21	FILTER, LOW PASS		R3508	1-216-295-91	SHORT			
FL3504	1-233-512-21	FERRITE	37µH	R3509	1-216-049-11	RES-CHIP	1K	5%	1/10W
				R3510	1-216-043-11	RES-CHIP	470	5%	1/10W
FL3505	1-233-512-21	FERRITE	37µH						1/10W
FL3506	1-233-512-21	FERRITE	37µH	R3511 R3512	1-216-041-00 1-216-295-91	RES-CHIP SHORT	470	5%	1/1000
	<u>IC</u>								
	10			R3514	1-216-025-11	RES-CHIP	100	5%	1/10W
IC3500	8-759-568-27	IC UPD424210LE-60-	E2	R3515	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
IC3501	8-759-594-44	IC UPD64082GF-3BA		R3516	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
IC3502	8-759-583-47	IC UPC2933T-E1		R3517	1-216-025-11	RES-CHIP	100	5%	1/10W
				R3518	1-216-025-11	RES-CHIP	100	5%	1/10W
	COIL			R3519	1-216-295-91	SHORT			
1 2500	1-414-265-21	INDUCTOR	4 7uLl			RES-CHIP	4.7K	5%	1/10W
L3500			4.7μH	R3520	1-216-065-91				1/10W
L3501	1-412-058-11	INDUCTOR	10μH	R3521	1-216-041-00	RES-CHIP	470	5%	
L3502	1-412-058-11	INDUCTOR	10μH	R3522	1-216-041-00	RES-CHIP	470	5%	1/10W
L3503	1-412-058-11	INDUCTOR	10μH	R3523	1-216-049-11	RES-CHIP	1K	5%	1/10V
L3504	1-412-058-11	INDUCTOR	10µH						
L3505	1-412-058-11	INDUCTOR	10µH	R3524	1-216-089-91	RES-CHIP	47K	5%	1/10W
				R3525	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
	TRANSISTOR			R3526	1-216-105-91	RES-CHIP	220K	5%	1/10W
				R3527	1-216-033-00	RES-CHIP	220	5%	1/10W
Q3500	8-729-424-02	TRANSISTOR 2SB70		R3528	1-208-776-11	METAL CHIP	560	0.50%	1/10W
Q3501	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX						
Q3502	8-729-424-02	TRANSISTOR 2SB70	9A-QRS-TX	R3529	1-208-772-11	METAL CHIP	390	0.50%	1/10W
Q3503	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX	R3530	1-216-067-00	RES-CHIP	5.6K	5%	1/10V
Q3504	8-729-424-02	TRANSISTOR 2SB70	9A-QRS-TX	R3531	1-216-049-11	RES-CHIP	1K	5%	1/10W
				R3532	1-216-025-11	RES-CHIP	100	5%	1/10W
				R3534	1-216-025-11	RES-CHIP	160 1K	5%	1/10W



REF.NO.	PART NO.	DESCRIPTION	VALU	ES		REF.NO.	PART NO.	DESCRIPTION	VALU	ES	
ILLI III O.	TAITI NO.	DECORAL FICK	TALO			TALL ING.	TAIL IO.	DECORN FICH	VALO		
R3535	1-216-025-11	RES-CHIP	100	5%	1/10W						
R3538	1-216-049-11	RES-CHIP	1K	5%	1/10W						
R3539	1-216-043-91	RES-CHIP	560	5%	1/10W		A 4400 000 A	D DOADD COMD			
R3540	1-216-049-11	RES-CHIP	1K	5%	1/10W	Î .	A-1136-200-A	B BOARD, COMPL	.EIE		
R3541	1-216-067-00	RES-CHIP	5.6K	5%	1/10W						
							CAPACITOR				
R3542	1-216-043-91	RES-CHIP	560	5%	1/10W	C3001	1-128-453-21	ELECT CHIP	47µF	20%	6.3\
R3543	1-216-049-11	RES-CHIP	1K	5%	1/10W	C3001	1-128-453-21	ELECT CHIP	47μF 47μF	20%	6.3
R3544	1-216-049-11	RES-CHIP	1K	5%	1/10W	C3002	1-128-453-21	ELECT CHIP	47μF 47μF	20%	6.3
R3545	1-216-043-91	RES-CHIP	560	5%	1/10W						
R3547	1-216-067-00	RES-CHIP	5.6K	5%	1/10W	C3004	1-126-206-11	ELECT CHIP	100µF	20%	6.3
						C3005	1-164-156-11	CERAMIC CHIP	0.1µF		25V
R3548	1-216-295-91	SHORT				02000	1 104 770 00	ELECT CLUD	40⊏	200/	101
R3549	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	C3006	1-124-779-00	ELECT CHIP	10µF	20%	16V
R3550	1-208-780-11	METAL CHIP	820	0.50%	1/10W	C3007	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10\
R3551	1-216-043-91	RES-CHIP	560	5%	1/10W	C3008	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10\
R3552	1-216-031-00	RES-CHIP	180	5%	1/10W	C3009	1-164-227-11	CERAMIC CHIP	0.022µF	10%	25\
						C3010	1-164-156-11	CERAMIC CHIP	0.1µF		25\
R3553	1-216-057-00	RES-CHIP	2.2K	5%	1/10W						
R3554	1-216-047-91	RES-CHIP	820	5%	1/10W	C3011	1-162-917-11	CERAMIC CHIP	15pF	5%	50\
R3555	1-216-075-00	RES-CHIP	12K	5%	1/10W	C3012	1-164-156-11	CERAMIC CHIP	0.1µF		25\
R3556	1-216-085-91	RES-CHIP	33K	5%	1/10W	C3013	1-104-601-11	ELECT CHIP	10µF	20%	10\
R3557	1-216-049-11	RES-CHIP	1K	5%	1/10W	C3014	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10\
110007	121004011	NEO OTIII	IIX	070	171000	C3015	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16\
R3558	1-216-017-91	RES-CHIP	47	5%	1/10W						
R3559	1-216-295-91	SHORT		070	.,	C3016	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10\
R3560	1-216-049-11	RES-CHIP	1K	5%	1/10W	C3017	1-124-779-00	ELECT CHIP	10µF	20%	16\
R3561	1-216-043-91	RES-CHIP	560	5%	1/10W	C3018	1-164-156-11	CERAMIC CHIP	0.1µF		25\
R3563	1-216-295-91	SHORT	000	070	17 1011	C3019	1-164-156-11	CERAMIC CHIP	0.1µF		25\
110000	1 210 200 01	GHOITH				C3020	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3
R3564	1-216-295-91	SHORT									
R3565	1-216-067-00	RES-CHIP	5.6K	5%	1/10W	C3021	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25\
R3566	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	C3022	1-164-156-11	CERAMIC CHIP	0.1µF		25\
R3567	1-216-043-91	RES-CHIP	560	5%	1/10W	C3023	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10\
R3568	1-216-047-91	RES-CHIP	820	5%	1/10W	C3024	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10\
N3300	1-210-047-91	NEO-OHIF	020	3 /0	1/1000	C3025	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10\
R3569	1-216-057-00	RES-CHIP	2.2K	5%	1/10W						
R3570	1-216-085-91	RES-CHIP	33K	5%	1/10W	C3026	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10\
			12K	5% 5%	1/10W	C3027	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10\
R3571	1-216-075-00	RES-CHIP				C3028	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25\
R3572	1-216-049-11	RES-CHIP	1K	5%	1/10W	C3030	1-164-156-11	CERAMIC CHIP	0.1µF		25\
R3573	1-216-017-91	RES-CHIP	47	5%	1/10W	C3031	1-164-156-11	CERAMIC CHIP	0.1µF		25\
D0500	4 040 040 04	DEO OUID	F00	F 0/	4/40/4/						
R3588	1-216-043-91	RES-CHIP	560	5%	1/10W	C3032	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16\
R3589	1-216-105-91	RES-CHIP	220K	5%	1/10W	C3033	1-126-206-11	ELECT CHIP	100µF	20%	6.3
						C3034	1-164-156-11	CERAMIC CHIP	0.1µF		25\
	CRYSTAL					C3035	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25\
X3500	1-767-606-11	VIBRATOR, CRYSTAL				C3036	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16\
						C3037	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16\
									-		16\
						C3039	1-124-779-00	ELECT CHIP	10μF	20%	101



REF.NO.	PART NO.	DESCRIPTION	VALUE	S			REF.NO.	PART NO.	DESCRIPTION	VALU	ES	
C3041	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V		C3092	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3043	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3093	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3044	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		C3094	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3045	1-124-779-00	ELECT CHIP	10µF	20%	16V		C3096	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3046	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V		C3097	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3047	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V		C3098	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3048	1-163-038-91	CERAMIC CHIP	0.1µF		25V		C3099	1-162-919-11	CERAMIC CHIP	22pF	5%	50V
C3049	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V		C3113	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3050	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V		C3114	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3051	1-162-917-11	CERAMIC CHIP	15pF	5%	50V		C3115	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3054	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3116	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3055	1-124-779-00	ELECT CHIP	10μF	20%	16V		C3117	1-126-603-11	ELECT CHIP	4.7μF	20%	35V
C3056	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3120	1-126-206-11	ELECT CHIP	100μF	20%	6.3V
C3057	1-126-603-11	ELECT CHIP	4.7µF	20%	35V		C3127	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3059	1-126-206-11	ELECT CHIP	100µF	20%	6.3V		C3128	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
C3060	1-126-204-11	ELECT CHIP	47µF	20%	16V		C3129	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C3061	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V		C3130	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C3062	1-126-204-11	ELECT CHIP	47µF	20%	16V		C3131	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C3063	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3132	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3064	1-117-681-11	ELECT CHIP	100µF	20%	16V		C3133	1-125-838-11	CERAMIC CHIP	2.2µF	10%	6.3V
C3066	1-126-204-11	ELECT CHIP	47µF	20%	16V		C3134	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3067	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V		C3135	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3068	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V		C3136	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C3069	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		C3137	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C3070	1-126-204-11	ELECT CHIP	47μF	20%	16V		C3138	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3071	1-162-916-11	CERAMIC CHIP	12pF	5%	50V		C3139	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C3072	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V		C3140	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3073	1-126-204-11	ELECT CHIP	47µF	20%	16V		C3141	1-162-917-11	CERAMIC CHIP	15pF	5%	50V
C3074	1-126-204-11	ELECT CHIP	47µF	20%	16V		C3142	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3075	1-164-315-11	CERAMIC CHIP	470pF	5%	50V		C3172	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3076	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V		C3173	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3078	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		C3204	1-126-193-11	ELECT CHIP	1µF	20%	50V
C3079	1-125-838-11	CERAMIC CHIP	2.2µF	10%	6.3V		C3205	1-117-681-11	ELECT CHIP	100μF	20%	16V
C3080	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C3206	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C3081	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3208	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C3082	1-126-204-11	ELECT CHIP	47µF	20%	16V		C3209	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3083	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V		C3210	1-125-837-91	CERAMIC CHIP	1µF	10%	6.3V
C3085	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V		C3211	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V
C3086	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C3212	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3087	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V		C3213	1-117-681-11	ELECT CHIP	100µF	20%	16V
C3088	1-124-779-00	ELECT CHIP	10μF	20%	16V		C3215	1-126-401-21	ELECT CHIP	1µF	20%	50V
C3089	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C3216	1-126-193-11	ELECT CHIP	1μF	20%	50V
C3090	1-126-204-11	ELECT CHIP	47μF	20%	16V		C3218	1-126-193-11	ELECT CHIP	1μF	20%	50V
C3091	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3219	1-126-193-11	ELECT CHIP	1µF	20%	50V
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REF.NO.	PART NO.	DESCRIPTION	VALUE	S			REF.NO.	PART NO.	DESCRIPTION	VALU	ES	
C3220	1-128-993-21	ELECT CHIP	22µF	20%	10V		C3317	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3221	1-117-681-11	ELECT CHIP	100µF	20%	16V		C3318	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3222	1-124-779-00	ELECT CHIP	10µF	20%	16V		C3319	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3223	1-124-779-00	ELECT CHIP	10µF	20%	16V		C3320	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3224	1-124-779-00	ELECT CHIP	10µF	20%	16V		C3321	1-164-156-11	CERAMIC CHIP	0.1μF		25V
00221	1 121 770 00	ELEGI OIIII	ΤΟμί	2070	101		00021	1 101 100 11	OLI WING OF III	υ. τμι		201
C3225	1-124-779-00	ELECT CHIP	10μF	20%	16V		C3322	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3226	1-124-779-00	ELECT CHIP	10µF	20%	16V		C3323	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3227	1-124-779-00	ELECT CHIP	10µF	20%	16V		C3324	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3229	1-117-681-11	ELECT CHIP	100µF	20%	16V		C3325	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3235	1-124-779-00	ELECT CHIP	10μF	20%	16V		C3326	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3236	1-124-779-00	ELECT CHIP	10μF	20%	16V		C3327	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3237	1-117-681-11	ELECT CHIP	100µF	20%	16V		C3328	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3239	1-124-779-00	ELECT CHIP	10µF	20%	16V		C3331	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3240	1-164-230-11	CERAMIC CHIP	220pF	5%	50V		C3332	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3241	1-164-361-11	CERAMIC CHIP	0.047µF	070	25V		C3333	1-164-156-11	CERAMIC CHIP	0.1μF	2070	25V
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C3242	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C3335	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3243	1-126-193-11	ELECT CHIP	1µF	20%	50V		C3336	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3245	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C3338	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3246	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C3339	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3247	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C3340	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3248	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C3341	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3249	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C3343	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3250	1-102-370-11	SHORT	0.01μ1	10 /0	251		C3344	1-164-156-11	CERAMIC CHIP	0.1μF		25V
C3251	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V		C3345	1-104-130-11	ELECT CHIP	0.1μΓ 47μF	20%	16V
C3251	1-216-295-91	SHORT	0.01μΓ	10 /0	257		C3346	1-120-204-11	CERAMIC CHIP	47μΓ 0.1μF	20 /0	25V
03232	1-210-293-91	SHOKI					C3340	1-104-150-11	CERAIVIIC CHIP	υ. τμι		250
C3253	1-127-573-11	CERAMIC CHIP	1µF	10%	16V		C3347	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3254	1-127-573-11	CERAMIC CHIP	1µF	10%	16V		C3348	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3255	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V		C3349	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3301	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3350	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3302	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3351	1-164-156-11	CERAMIC CHIP	0.1µF		25V
00000	4 400 000 44	FLEOT OUID	400	000/	0.01/		00050	4 404 770 00	FLEOT OUID	40	000/	401/
C3303	1-126-206-11	ELECT CHIP	100µF	20%	6.3V		C3352	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3304	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3353	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3305	1-164-156-11	CERAMIC CHIP	0.1µF	000/	25V		C3354	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3306	1-126-204-11	ELECT CHIP	47µF	20%	16V		C3355	1-164-156-11	CERAMIC CHIP	0.1µF	222/	25V
C3307	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3356	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3308	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3357	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3309	1-124-779-00	ELECT CHIP	10µF	20%	16V		C3358	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3310	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		C3359	1-126-204-11	ELECT CHIP	47μF	20%	16V
C3311	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		C3360	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3312	1-126-206-11	ELECT CHIP	100µF	20%	6.3V		C3361	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C2242	1 164 156 11	CEDAMIC CHID	0.4		25\/		Cases	1 107 760 11	CEDAMIC CUID	4 7 .	100/	6 21/
C3313	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3362	1-127-760-11	CERAMIC CHIP	4.7µF	10%	6.3V
C3314	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3363	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3315	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3364	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3316	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3365	1-164-156-11	CERAMIC CHIP	0.1µF		25V



REF.NO.	PART NO.	DESCRIPTION	VALUE	S		REF.NO.	PART NO.	DESCRIPTION	VALU	ES	
C3366	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3433	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3367	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3434	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3368	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3435	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3369	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3436	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C3370	1-164-156-11	CERAMIC CHIP	0.1μF		25V	C3437	1-126-204-11	ELECT CHIP	47μF	20%	16V
03070	1-10-1-100-11	OLIVAIVIIO OLIII	0.1μ1		201	00407	1-120-204-11	LLLOT OTHI	+/μι	2070	10 V
C3371	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3438	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3372	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3439	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3374	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3440	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
C3375	1-127-760-11	CERAMIC CHIP	4.7µF	10%	6.3V	C3441	1-162-916-11	CERAMIC CHIP	12pF	5%	50V
C3376	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3442	1-124-779-00	ELECT CHIP	10μF	20%	16V
C3377	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3443	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3378	1-102-370-11	ELECT CHIP	47μF	20%	16V	C3444	1-164-156-11	CERAMIC CHIP	0.01µF	10 /0	25V
C3379	1-120-204-11	CERAMIC CHIP	47μΓ 0.1μF	20 /0	25V	C3444	1-104-130-11	ELECT CHIP		20%	16V
	1-164-156-11				25V 25V				47µF		50V
C3401		CERAMIC CHIP	0.1µF	200/		C3446	1-163-021-91	CERAMIC CHIP	0.01µF	10%	
C3402	1-124-779-00	ELECT CHIP	10µF	20%	16V	C3447	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3403	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3448	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3404	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3449	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V
C3405	1-126-206-11	ELECT CHIP	100µF	20%	6.3V	C3450	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3406	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	C3452	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3407	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	C3453	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3408	1-126-206-11	ELECT CHIP	100µF	20%	6.3V	C3454	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3409	1-120-200-11	CERAMIC CHIP	0.1μF	20 /0	25V	C3455	1-104-130-11	ELECT CHIP	-	20%	16V
									10µF	20%	25V
C3410	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3456	1-164-156-11	CERAMIC CHIP	0.1µF	200/	
C3411	1-163-038-91	CERAMIC CHIP	0.1µF		25V	C3457	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3412	1-163-038-91	CERAMIC CHIP	0.1µF		25V	C3458	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3413	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3460	1-162-923-11	CERAMIC CHIP	47pF	5%	50V
C3414	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C3462	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3415	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3463	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3416	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3464	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3417	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3465	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C2410	1 162 021 01	CEDAMIC CUID	0.01	100/	E0\/	C2466	1 164 156 11	CERAMIC CHIP	0.1		25/
C3418	1-163-021-91 1-164-156-11	CERAMIC CHIP CERAMIC CHIP	0.01µF	10%	50V 25V	C3466	1-164-156-11 1-164-156-11	CERAMIC CHIP	0.1µF		25V 25V
C3419			0.1µF	200/		C3467			0.1µF	200/	
C3420	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3468	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3421	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3469	1-164-156-11	CERAMIC CHIP	0.1µF	000/	25V
C3422	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3470	1-126-206-11	ELECT CHIP	100µF	20%	6.3V
C3423	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V	C3473	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3424	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3474	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3425	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V	C3475	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3426	1-164-156-11	CERAMIC CHIP	0.1µF		25V	C3476	1-124-779-00	ELECT CHIP	10µF	20%	16V
C3428	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	C3477	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3429	1-124-779-00	ELECT CHIP	10μF	20%	16V	C3478	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3429 C3430	1-124-779-00	CERAMIC CHIP	10μF 0.1μF	ZU /0	25V	C3476 C3479	1-120-204-11	ELECT CHIP	47μF 10μF	20%	16V
C3430 C3431	1-104-150-11	ELECT CHIP		20%	25V 16V	C3479 C3480	1-124-779-00	CERAMIC CHIP	-	2070	25V
			47µF						0.1µF	200/	
C3432	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	C3481	1-117-681-11	ELECT CHIP	100µF	20%	16V



REF.NO.	PART NO.	DESCRIPTION	VALUE	s			REF.NO.	PART NO.	DESCRIPTION	VALU	ES	
C3482	1-117-681-11	ELECT CHIP	100µF	20%	16V		C3644	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3483	1-117-681-11	ELECT CHIP	100µF	20%	16V	1	C3652	1-162-974-11	CERAMIC CHIP	0.01µF		50V
C3484	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V		C3653	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C3485	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3654	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C3486	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3655	1-164-816-11	CERAMIC CHIP	220pF	2%	50V
C3487	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3656	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C3488	1-124-779-00	ELECT CHIP	10μF	20%	16V		C3657	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C3489	1-164-156-11	CERAMIC CHIP	0.1µF		25V		C3658	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V
C3490	1-124-779-00	ELECT CHIP	10µF	20%	16V		C3659	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3491	1-126-204-11	ELECT CHIP	47µF	20%	16V		C3660	1-126-204-11	ELECT CHIP	47µF	20%	16V
C3492	1-164-156-11	CERAMIC CHIP	0.1µF		25V			CONNECTOR				
C3493	1-126-204-11	ELECT CHIP	47µF	20%	16V							
C3494	1-164-156-11	CERAMIC CHIP	0.1µF		25V	*	CN3201	1-691-616-21	CONNECTOR, BOARD			
C3495	1-124-779-00	ELECT CHIP	10μF	20%	16V		CN3202	1-573-299-21	CONNECTOR, BOARD		10P	
C3496	1-164-156-11	CERAMIC CHIP	0.1µF		25V	*	CN3203	1-785-303-11	CONNECTOR, DIN (PL	LUG)	64P	
						*	CN3204	1-564-526-11	PLUG,CONNECTOR		11P	
C3604	1-124-779-00	ELECT CHIP	10μF	20%	16V	*	CN3205	1-785-304-11	CONNECTOR, DIN (RE	ECEPTACLE) 64	
C3605	1-164-156-11	CERAMIC CHIP	0.1µF		25V							
C3606	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V			DIODE				
C3607	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		D2004	0 740 070 22	DIODE UDZSTE-176.8	D		
C3608	1-163-275-11	CERAMIC CHIP	0.001µF	5%	50V		D3001 D3002	8-719-978-33 8-719-978-33	DIODE UDZSTE-176.8			
							D3002 D3003	8-719-978-33	DIODE UDZSTE-176.8			
C3609	1-162-968-11	CERAMIC CHIP	.0047µF	10%	50V		D3003	8-719-978-33	DIODE UDZSTE-176.8			
C3610	1-126-204-11	ELECT CHIP	47μF	20%	16V		D3004	8-719-978-33	DIODE UDZSTE-176.8			
C3611	1-164-156-11	CERAMIC CHIP	0.1µF		25V		D3003	0-719-970-33	DIODE 0D201E-170.0	D		
C3612	1-162-917-11	CERAMIC CHIP	15pF	5%	50V		D3006	8-719-978-33	DIODE UDZSTE-176.8	R		
C3613	1-162-917-11	CERAMIC CHIP	15pF	5%	50V		D3007	8-719-978-33	DIODE UDZSTE-176.8			
C3618	1-124-779-00	ELECT CHIP	10μF	20%	16V		D3089	8-719-800-76	DIODE MA153-TX			
C3619	1-164-156-11	CERAMIC CHIP	0.1µF		25V		D3090	8-719-800-76	DIODE MA153-TX	_		
C3623	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V		D3201	8-719-977-28	DIODE UDZSTE-1710E	3		
C3624	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		Dagge	0.740.077.00	DIODE LIDZOTE 4740			
C3625	1-163-275-11	CERAMIC CHIP	0.001µF	5%	50V		D3202	8-719-977-28	DIODE UDZSTE-1710E			
							D3204	8-719-977-28	DIODE UDZSTE-1710E			
C3626	1-162-968-11	CERAMIC CHIP	.0047µF	10%	50V		D3205	8-719-977-28	DIODE UDZSTE-1710E			
C3627	1-126-204-11	ELECT CHIP	47µF	20%	16V		D3206	8-719-977-28	DIODE UDZSTE-1710E			
C3628	1-164-156-11	CERAMIC CHIP	0.1µF		25V		D3209	8-719-914-44	DIODE DAP202K-T-146	0		
C3629	1-162-917-11	CERAMIC CHIP	15pF	5%	50V		D2240	0 710 041 07	DIODE MA112 (TV)			
C3630	1-162-917-11	CERAMIC CHIP	15pF	5%	50V		D3210 D3211	8-719-041-97 8-719-404-50	DIODE MA113-(TX) DIODE MA111-TX			
							D3211	8-719-977-28	DIODE WATTI-TX DIODE UDZSTE-1710E	2		
C3635	1-126-204-11	ELECT CHIP	47μF	20%	16V		D3212 D3213	8-719-977-28	DIODE UDZSTE-1710E			
C3636	1-125-837-91	CERAMIC CHIP	1μF	10%	6.3V		D3213	8-719-977-28	DIODE UDZSTE-1710E			
C3637	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	1	DUL 14	0-1 10-011 -2 0	PIODE ODEO IE-1/ 100	,		
C3638	1-124-779-00	ELECT CHIP	10μF	20%	16V	1	D3215	8-719-977-28	DIODE UDZSTE-1710E	3		
C3639	1-164-156-11	CERAMIC CHIP	0.1µF		25V		D3215	8-719-977-28	DIODE UDZSTE-1710E			
2						1	D3210	8-719-977-28	DIODE UDZSTE-1710E			
C3640	1-162-964-11	CERAMIC CHIP	0.001µF	10%	50V		D3301	8-719-056-77	DIODE UDZ-TE-17-3.9			
C3641	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V		D3401	8-719-914-43	DIODE DAN202K-T-14			
C3642	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	1	20101	OF FID 01 1 0	SIODE DIMEDEN 1-14	•		
C3643	1-107-826-11	CERAMIC CHIP	0.1µF	10%	16V	1						



REF.NO.	PART NO.	DESCRIPTION	VALUES	REF.NO.	PART NO.	DESCRIPTION	VALUES
D3402	8-719-914-44	DIODE DAP202K-T-146		IC3404	8-759-669-75	IC TLC2932IPWR	
D3403	8-719-978-33	DIODE UDZSTE-176.8B		IC3405	8-759-485-79	IC TC7SET08FU(TE85R)
				IC3406	8-759-485-79	IC TC7SET08FU(TE85R	
	FERRITE BEAD			IC3407	8-759-485-79	IC TC7SET08FU(TE85R	
	I LIMITE BEAD			IC3408	8-759-672-57	IC CXD9509AQ	,
FB3201	1-414-234-22	FERRITE	0μΗ				
FB3202	1-414-234-22	FERRITE	0μΗ	IC3409	8-749-015-18	IC PQ07VZ012P	
FB3203	1-216-295-91	SHORT		IC3410	8-752-367-59	IC CXD2309Q	
FB3204	1-414-234-22	FERRITE	0μΗ	IC3411	8-759-082-57	IC TC7W04FU(TE12R)	
FB3205	1-414-234-22	FERRITE	0μΗ	IC3412	8-759-082-58	IC TC7W08FU(TE12R)	
				IC3413	8-759-595-97	IC SN74LV4053ANSR	
FB3206	1-414-234-22	FERRITE	0μΗ				
FB3401	1-414-235-22	FERRITE	0μΗ	IC3414	8-759-548-56	IC M52055FP	
FB3402	1-414-235-22	FERRITE	0μΗ	IC3601	8-752-916-40	IC CXP85840A-039Q	
FB3601	1-414-235-22	FERRITE	0μΗ	IC3602	8-752-916-40	IC CXP85840A-039Q	
				IC3603	8-752-395-13	IC CXD2085M-T4	
	<u>FILTER</u>			IC3604	8-759-700-07	IC NJM2903M-TE2	
FL3001	1-239-848-11	FILTER, LOW PASS					
FL3002	1-239-848-11	FILTER, LOW PASS			COIL		
FL3003	1-781-923-11	FILTER, LOW PASS	(SMD)	1.2004	1 216 205 01	CHODT	
FL3004	1-239-848-11	FILTER, LOW PASS	(GMD)	L3001	1-216-295-91	SHORT	10L
FL3401	1-781-923-21	FILTER, LOW PASS	(SMD)	L3002	1-469-555-21	INDUCTOR	10µH
1 2040 1	1 701 323 21	TIETER, EOW TAGO	(OMD)	L3003	1-469-555-21	INDUCTOR	10μH
	10			L3004	1-469-555-21	INDUCTOR	10μH
	<u>IC</u>			L3005	1-469-555-21	INDUCTOR	10μΗ
IC3001	8-752-093-84	IC CXA2151Q		L3049	1-469-555-21	INDUCTOR	10μH
IC3002	8-759-595-97	IC SN74LV4053ANSR		L3050	1-469-555-21	INDUCTOR	10µH
IC3003	8-752-394-69	IC CXD2073Q-T4		L3051	1-469-555-21	INDUCTOR	10µH
IC3004	8-759-595-97	IC SN74LV4053ANSR		L3089	1-414-233-22	FERRITE	0μΗ
IC3048	8-752-089-50	IC CXA2103Q		L3112	1-469-555-21	INDUCTOR	10μH
IC3089	6-700-149-01	IC M24C04-MN6T(A)					
IC3090	6-800-050-01	IC MB94918RpF-G-137-	RND	L3113	1-469-555-21	INDUCTOR	10μH
IC3091	8-759-349-11	IC PST9145NL	DIND	L3301	1-412-058-11	INDUCTOR	10μH
IC3110	8-752-089-50	IC CXA2103Q		L3302	1-469-555-21	INDUCTOR	10μH
IC3201	8-752-080-04	IC CXA2103Q		L3303	1-412-052-21	INDUCTOR	1μH
100201	0-732-000-04	IO CAAZUUSQ		L3304	1-469-555-21	INDUCTOR	10μH
IC3202	8-759-351-01	IC TEA6422DT		L3305	1-469-555-21	INDUCTOR	10μH
IC3203	8-759-331-71	IC NJM4558E(TE2)		L3306	1-469-561-21	INDUCTOR	100µH
IC3301	6-700-174-01	IC IS42S16100-7T		L3307	1-469-555-21	INDUCTOR	10µH
IC3302	8-749-015-18	IC PQ07VZ012P		L3308	1-469-561-21	INDUCTOR	100µH
IC3303	8-752-409-78	IC CXD2095AQ		L3309	1-469-561-21	INDUCTOR	100µH
100004	0.750.447.00	IC TI CE722AIDM					
IC3304	8-759-447-90	IC TLC5733AIPM		L3310	1-469-561-21	INDUCTOR	100µH
IC3305	8-759-669-75	IC TLC2932IPWR		L3311	1-469-561-21	INDUCTOR	100µH
IC3306	8-759-669-78	IC TLC2933IPWR-12		L3312	1-469-555-21	INDUCTOR	10µH
IC3401	8-749-015-18	IC PQ07VZ012P	<u>, </u>	L3401	1-412-052-21	INDUCTOR	1μΗ
IC3402	8-759-677-37	IC MT48LC2M32B2TG-6)	L3402	1-412-052-21	INDUCTOR	1μH
IC3402	8-759-675-89	IC TC59S6432CFT-80(Y	B)	1.0400	1 460 564 04	INDUCTOR	100mH
IC3403	8-759-460-29	IC PST9120NL	,	L3403	1-469-561-21	INDUCTOR	100μH
				L3404	1-469-561-21	INDUCTOR	100µH



REF.NO.	PART NO.	DESCRIPTION	VALUES	REF.NO.	PART NO.	DESCRIPTION	VALUES
L3405	1-469-555-21	INDUCTOR	10μH	Q3037	8-729-422-27	TRANSISTOR 2SD601A	A-QRS-TX
L3406	1-469-555-21	INDUCTOR	10μH	Q3038	8-729-422-27	TRANSISTOR 2SD601A	A-QRS-TX
L3407	1-469-555-21	INDUCTOR	10μH	Q3039	8-729-422-27	TRANSISTOR 2SD601A	A-QRS-TX
L3409	1-469-555-21	INDUCTOR	10μH	Q3040	8-729-422-27	TRANSISTOR 2SD601A	A-QRS-TX
L3410	1-412-052-21	INDUCTOR	1μH	Q3049	8-729-422-27	TRANSISTOR 2SD601A	A-QRS-TX
L3411	1-412-058-11	INDUCTOR	10μH	Q3051	8-729-424-02	TRANSISTOR 2SB709A	A-ORS-TX
L3412	1-469-555-21	INDUCTOR	10μH	Q3053	8-729-424-02	TRANSISTOR 2SB709A	
L3413	1-469-555-21	INDUCTOR	10μH	Q3054	8-729-422-27	TRANSISTOR 2SD601A	
L3414	1-469-555-21	INDUCTOR	10µH	Q3056	8-729-424-02	TRANSISTOR 2SB709A	
L3416	1-469-555-21	INDUCTOR	10µH	Q3058	8-729-424-02	TRANSISTOR 2SB709A	
L3601	1-469-555-21	INDUCTOR	10µH	Q3089	8-729-424-02	TRANSISTOR 2SB709A	1-ORS-TX
L3602	1-412-951-11	INDUCTOR	10μH	Q3090	8-729-424-02	TRANSISTOR 2SB709/	
L3603	1-469-555-21	INDUCTOR	10μH	Q3091	1-801-806-11	TRANSISTOR DTC144I	
L3604	1-412-951-11	INDUCTOR	10μH	Q3101	8-729-422-27	TRANSISTOR 2SD601/	
L3605	1-469-555-21	INDUCTOR	10μH	Q3102	8-729-422-27	TRANSISTOR 2SD601/	
1,0000	4 400 555 04	INDUCTOR	4011	00400	0.700.404.00	TDANICIOTOD OOD700	A ODO TV
L3606	1-469-555-21	INDUCTOR	10µH	Q3103	8-729-424-02	TRANSISTOR 2SB709A	
L3607	1-469-555-21	INDUCTOR	10µH	Q3104	8-729-424-02	TRANSISTOR 2SB709A	
L3608	1-414-754-11	INDUCTOR	10µH	Q3110	8-729-424-02	TRANSISTOR 2SB709A	
L3609	1-414-754-11	INDUCTOR	10μH	Q3111	8-729-424-02	TRANSISTOR 2SB709A	
	TRANSISTOR			Q3112	8-729-424-02	TRANSISTOR 2SB709A	4-QRS-1X
				Q3201	8-729-422-27	TRANSISTOR 2SD601A	A-QRS-TX
Q3001	8-729-422-27	TRANSISTOR 2SD60		Q3202	8-729-422-27	TRANSISTOR 2SD601A	A-QRS-TX
Q3002	8-729-422-27	TRANSISTOR 2SD60		Q3203	8-729-424-02	TRANSISTOR 2SB709A	A-QRS-TX
Q3003	8-729-424-02	TRANSISTOR 2SB70		Q3204	8-729-424-02	TRANSISTOR 2SB709A	A-QRS-TX
Q3005	8-729-422-27	TRANSISTOR 2SD60		Q3205	8-729-422-27	TRANSISTOR 2SD601A	A-QRS-TX
Q3006	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX	00000	0.700,400,07	TRANSISTOR CORCOL	1 0D0 TV
Q3007	8-729-422-27	TRANSISTOR 2SD60	1A ODS TV	Q3206	8-729-422-27	TRANSISTOR 2SD601	
Q3007 Q3008	8-729-424-02	TRANSISTOR 2SB70		Q3207	8-729-424-02	TRANSISTOR 2SB709A	
Q3009	8-729-424-02	TRANSISTOR 2SB70		Q3208	8-729-422-27	TRANSISTOR 2SD601	
Q3010	8-729-424-02	TRANSISTOR 2SB70		Q3209	8-729-422-27	TRANSISTOR 2SD601	
Q3011	8-729-424-02	TRANSISTOR 2SB70		Q3210	8-729-424-02	TRANSISTOR 2SB709A	4-QRS-1X
00044	0.700.404.00	TD 4 NOIOTO D 00 D 70	04 OD0 TV	Q3211	1-801-806-11	TRANSISTOR DTC144I	EKA-T146
Q3014	8-729-424-02	TRANSISTOR 2SB70		Q3213	8-729-422-27	TRANSISTOR 2SD601	
Q3015	8-729-424-02	TRANSISTOR 2SB70		Q3214	8-729-424-02	TRANSISTOR 2SB709A	
Q3016	8-729-424-02	TRANSISTOR 2SB70		Q3215	8-729-424-02	TRANSISTOR 2SB709A	
Q3017 Q3018	8-729-424-02 8-729-422-27	TRANSISTOR 2SB70 TRANSISTOR 2SD60		Q3216	8-729-422-27	TRANSISTOR 2SD601A	A-QRS-TX
400.0				Q3217	8-729-422-27	TRANSISTOR 2SD601A	A-QRS-TX
Q3021	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX	Q3301	8-729-422-27	TRANSISTOR 2SD601A	
Q3022	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX	Q3302	8-729-422-27	TRANSISTOR 2SD601A	
Q3023	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX	Q3303	8-729-422-27	TRANSISTOR 2SD601	
Q3025	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX	Q3304	8-729-422-27	TRANSISTOR 2SD601A	A-QRS-TX
Q3026	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX				
00007	0.700.400.07	TDANIOIOTOD CODOC	4A ODC TV	Q3305	8-729-424-02	TRANSISTOR 2SB709A	
Q3027	8-729-422-27	TRANSISTOR 2SD60		Q3401	8-729-422-27	TRANSISTOR 2SD601A	
Q3035	8-729-422-27	TRANSISTOR 2SD60		Q3402	8-729-028-28	TRANSISTOR 2SK2036	, ,
Q3036	8-729-422-27	TRANSISTOR 2SD60	IA-UKS-IX	Q3403	8-729-422-27	TRANSISTOR 2SD601A	A-QRS-TX



REF.NO.	PART NO.	DESCRIPTION	VALUI	ES			REF.NO.	PART NO.	DESCRIPTION	VALI	JES	
Q3404	8-729-028-28	TRANSISTOR 2SK20	36(TE85L)				R3020	1-216-809-11	RES-CHIP	100	5%	1/16W
Q3405	8-729-424-02	TRANSISTOR 2SB70					R3021	1-216-809-11	RES-CHIP	100	5%	1/16W
Q3406	8-729-424-02	TRANSISTOR 2SB70					R3022	1-216-809-11	RES-CHIP	100	5%	1/16W
Q3407	8-729-422-27	TRANSISTOR 2SD60					R3023	1-216-833-11	RES-CHIP	10K	5%	1/16W
Q3407 Q3408	8-729-424-02	TRANSISTOR 2SB70					R3024	1-216-809-11	RES-CHIP	100	5%	1/16W
Q3400	0-129-424-02	TRANSISTOR 25B/0	9A-QR3-1A				K3024	1-210-009-11	KES-UNIF	100	370	1/1000
Q3409	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX				R3025	1-216-809-11	RES-CHIP	100	5%	1/16W
Q3410	8-729-424-02	TRANSISTOR 2SB70	9A-QRS-TX				R3026	1-216-035-00	RES-CHIP	270	5%	1/10W
Q3411	8-729-424-02	TRANSISTOR 2SB70	9A-QRS-TX				R3027	1-218-684-11	METAL CHIP	470	0.50%	1/16W
Q3412	8-729-424-02	TRANSISTOR 2SB70	9A-QRS-TX				R3028	1-218-688-11	METAL CHIP	680	0.50%	1/16W
Q3413	8-729-424-02	TRANSISTOR 2SB70	9A-QRS-TX				R3029	1-218-704-11	METAL CHIP	3.3K	0.50%	1/16W
Q3414	8-729-424-02	TRANSISTOR 2SB70	9A-ORS-TX				R3030	1-216-864-11	SHORT			
Q3415	8-729-424-02	TRANSISTOR 2SB70					R3035	1-216-809-11	RES-CHIP	100	5%	1/16W
Q3603	8-729-422-27	TRANSISTOR 2SD60					R3036	1-216-809-11	RES-CHIP	100	5%	1/16W
Q3604	8-729-422-27	TRANSISTOR 2SD60					R3037	1-216-809-11	RES-CHIP	100	5%	1/16W
Q3605	8-729-422-27	TRANSISTOR 2SD60					R3038	1-218-686-11	METAL CHIP	560		1/16W
Q0000	0 120 122 21	110 110101011 20000	TIT QUE TA				110000	1 210 000 11	WEITE OTH	000	0.0070	171011
Q3606	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX				R3039	1-218-686-11	METAL CHIP	560	0.50%	1/16W
Q3609	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX				R3040	1-218-686-11	METAL CHIP	560	0.50%	1/16W
Q3610	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX				R3042	1-216-821-11	RES-CHIP	1K	5%	1/16W
Q3611	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX				R3043	1-216-837-11	RES-CHIP	22K	5%	1/16W
Q3612	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX				R3044	1-216-837-11	RES-CHIP	22K	5%	1/16W
Q3613	8-729-422-27	TRANSISTOR 2SD60	11 ODS TV				R3045	1-216-817-11	RES-CHIP	470	5%	1/16W
Q3617	8-729-422-27	TRANSISTOR 2SD60					R3046	1-216-817-11	RES-CHIP	470	5%	1/16W
Q3618	8-729-422-27	TRANSISTOR 2SD60					R3047	1-216-809-11	RES-CHIP	100	5%	1/16W
Q3619	8-729-422-27	TRANSISTOR 2SD60					R3048	1-216-809-11	RES-CHIP	100	5%	1/16W
Q3620	8-729-422-27	TRANSISTOR 2SD60	TA-QR5-TX				R3049	1-216-809-11	RES-CHIP	100	5%	1/16W
	RESISTOR						R3050	1-216-809-11	RES-CHIP	100	5%	1/16W
							R3051	1-216-845-11	RES-CHIP	100K	5%	1/16W
R3001	1-216-805-11	RES-CHIP	47	5%	1/16W		R3052	1-216-845-11	RES-CHIP	100K	5%	1/16W
R3002	1-216-805-11	RES-CHIP	47	5%	1/16W		R3053	1-216-845-11	RES-CHIP	100K	5%	1/16W
R3003	1-216-842-11	RES-CHIP	56K	5%	1/16W		R3056	1-216-817-11	RES-CHIP	470	5%	1/16W
R3004	1-216-818-11	RES-CHIP	560	5%	1/16W							
R3005	1-216-821-11	RES-CHIP	1K	5%	1/16W		R3057	1-216-817-11	RES-CHIP	470	5%	1/16W
							R3058	1-216-835-11	RES-CHIP	15K	5%	1/16W
R3006	1-216-817-11	RES-CHIP	470	5%	1/16W		R3059	1-216-817-11	RES-CHIP	470	5%	1/16W
R3007	1-218-686-11	METAL CHIP	560	0.50%	1/16W		R3060	1-216-809-11	RES-CHIP	100	5%	1/16W
R3009	1-218-710-11	METAL CHIP	5.6K	0.50%	1/16W		R3061	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R3010	1-218-716-11	METAL CHIP	10K		1/16W		110001	1 210 020 11	NEO OTIII	7.710	0 /0	1710
R3011	1-216-821-11	RES-CHIP	1K	5%	1/16W		R3062	1-218-697-11	METAL CHIP	1.6K	0.50%	1/16W
							R3063	1-218-716-11	METAL CHIP	10K		1/16W
R3012	1-216-864-11	SHORT					R3064	1-218-696-11	METAL CHIP	1.5K		1/16W
R3013	1-216-813-11	RES-CHIP	220	5%	1/16W		R3066	1-216-809-11	RES-CHIP	100	5%	1/16W
R3014	1-218-676-11	METAL CHIP	220		1/16W		R3067	1-216-845-11	RES-CHIP	100K	5%	1/16W
R3015	1-216-864-11	SHORT					110001	1 & 10-040-11	INEO OF III	1001	J /0	17 10 8 8
R3017	1-216-809-11	RES-CHIP	100	5%	1/16W		R3068	1-216-809-11	RES-CHIP	100	5%	1/16W
			-				R3071	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3018	1-216-817-11	RES-CHIP	470	5%	1/16W		R3072	1-216-833-11		10K	5% 5%	1/16W
R3019	1-218-686-11	METAL CHIP	560		1/16W				RES-CHIP			
1,0010	1 210 000-11	ME IAE OI III	000	0.0070	1/1011	1	R3073	1-216-805-11	RES-CHIP	47	5%	1/16W



REF.NO.	PART NO.	DESCRIPTION	VALUE	S		REF.NO.	PART NO.	DESCRIPTION	VALI	JES	
R3074	1-216-805-11	RES-CHIP	47	5%	1/16W	R3130	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3075	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3131	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3076	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3132	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3077	1-216-809-11	RES-CHIP	100	5%	1/16W	R3133	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3078	1-216-832-11	RES-CHIP	8.2K	5%	1/16W	R3134	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3079	1-216-049-11	RES-CHIP	1K	5%	1/10W	R3135	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3080	1-216-845-11	RES-CHIP	100K	5%	1/16W	R3136	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3081	1-216-809-11	RES-CHIP	1001	5%	1/16W	R3137	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3082	1-216-845-11	RES-CHIP	100K	5%	1/16W	R3138	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3083	1-216-864-11	SHORT	1001	J /0	1/1000	R3139	1-216-821-11	RES-CHIP	1K	5%	1/16W
K3003	1-210-004-11	SHORT				K3139	1-210-021-11	KES-GHIP	IK	370	1/1000
R3084	1-216-864-11	SHORT				R3140	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3085	1-216-864-11	SHORT				R3141	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3086	1-216-864-11	SHORT				R3142	1-216-805-11	RES-CHIP	47	5%	1/16W
R3087	1-216-864-11	SHORT				R3143	1-216-805-11	RES-CHIP	47	5%	1/16W
R3088	1-216-864-11	SHORT				R3144	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3089	1-216-864-11	SHORT				R3145	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3090	1-216-861-11	RES-CHIP	2.2M	5%	1/16W	R3146		RES-CHIP	8.2K	5%	1/16W
R3091	1-216-825-11	RES-CHIP	2.2K	5% 5%	1/16W	R3147	1-216-832-11 1-216-837-11	RES-CHIP	22K	5%	1/16W
R3092	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3151	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3093	1-216-809-11	RES-CHIP	100	5%	1/16W	R3152	1-216-818-11	RES-CHIP	560	5%	1/16W
R3094	1-216-809-11	RES-CHIP	100	5%	1/16W	R3154	1-216-832-11	RES-CHIP	8.2K	5%	1/16W
R3095	1-216-845-11	RES-CHIP	100K	5%	1/16W	R3155	1-216-841-11	RES-CHIP	47K	5%	1/16W
R3096	1-216-817-11	RES-CHIP	470	5%	1/16W	R3156	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3097	1-216-845-11	RES-CHIP	100K	5%	1/16W	R3157	1-216-817-11	RES-CHIP	470	5%	1/16W
R3098	1-216-805-11	RES-CHIP	47	5%	1/16W	R3158	1-216-817-11	RES-CHIP	470	5%	1/16W
R3099	1-216-805-11	RES-CHIP	47	5%	1/16W	R3159	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3100	1-216-809-11	RES-CHIP	100	5%	1/16W	R3160	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3101	1-216-809-11	RES-CHIP	100	5%	1/16W	R3161	1-216-809-11	RES-CHIP	100	5%	1/16W
R3102	1-216-809-11	RES-CHIP	100	5%	1/16W	R3162	1-216-815-11	RES-CHIP	330	5%	1/16W
R3103	1-216-837-11	RES-CHIP	22K	5%	1/16W	R3163	1-218-710-11	METAL CHIP	5.6K	0.50%	
R3104	1-216-809-11	RES-CHIP	100	5%	1/16W	R3164	1-218-710-11	METAL CHIP	5.6K	0.50%	1/16\//
R3105	1-216-809-11	RES-CHIP	100	5%	1/16W	R3165	1-216-861-11	RES-CHIP	2.2M	5%	1/16W
R3106	1-216-837-11	RES-CHIP	22K	5%	1/16W	R3166	1-216-861-11	RES-CHIP	2.2M	5%	1/16W
R3107	1-216-864-11		ΖΖΙ	3 /0	1/1000				160	0.50%	
R3107		SHORT	470	5%	1/16W	R3180	1-218-673-11	METAL CHIP		0.50%	
K3100	1-216-817-11	RES-CHIP	470	3%	1/1000	R3181	1-218-673-11	METAL CHIP	160	0.50%	1/1000
R3121	1-216-809-11	RES-CHIP	100	5%	1/16W	R3182	1-218-673-11	METAL CHIP	160	0.50%	
R3122	1-216-809-11	RES-CHIP	100	5%	1/16W	R3183	1-216-809-11	RES-CHIP	100	5%	1/16W
R3123	1-218-696-11	METAL CHIP	1.5K	0.50%	1/16W	R3184	1-216-809-11	RES-CHIP	100	5%	1/16W
R3124	1-218-696-11	METAL CHIP	1.5K	0.50%	1/16W	R3185	1-216-809-11	RES-CHIP	100	5%	1/16W
R3125	1-216-823-11	RES-CHIP	1.5K	5%	1/16W	R3186	1-218-674-11	METAL CHIP	180	0.50%	1/16W
R3126	1-216-823-11	RES-CHIP	1.5K	5%	1/16W	R3187	1-218-674-11	METAL CHIP	180	0.50%	1/16W
R3127	1-216-829-11	RES-CHIP	4.7K	5%	1/16W	R3188	1-218-674-11	METAL CHIP	180	0.50%	
R3128	1-216-829-11	RES-CHIP	4.7K	5%	1/16W	R3190	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3129	1-216-835-11	RES-CHIP	15K	5%	1/16W	R3191	1-218-694-11	METAL CHIP	1.2K	0.50%	
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REF.NO.	PART NO.	DESCRIPTION	VALU	ES		REF.NO.	PART NO.	DESCRIPTION	VALU	JES	
R3192	1-216-814-11	RES-CHIP	270	5%	1/16W	R3246	1-216-809-11	RES-CHIP	100	5%	1/16W
R3193	1-218-698-11	METAL CHIP	1.8K		1/16W	R3247	1-216-809-11	RES-CHIP	100	5%	1/16W
R3194	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3248	1-216-809-11	RES-CHIP	100	5%	1/16W
R3195	1-216-816-11	RES-CHIP	390	5%	1/16W	R3249	1-216-809-11	RES-CHIP	100	5%	1/16W
R3196	1-216-833-11	RES-CHIP	10K	5%	1/16W	R3250	1-216-809-11	RES-CHIP	100	5%	1/16W
R3197	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3254	1-216-809-11	RES-CHIP	100	5%	1/16W
R3198	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3255	1-216-809-11	RES-CHIP	100	5%	1/16W
R3201	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3256	1-216-809-11	RES-CHIP	100	5%	1/16W
R3202	1-216-809-11	RES-CHIP	100	5%	1/16W	R3257	1-216-809-11	RES-CHIP	100	5%	1/16W
R3203	1-216-809-11	RES-CHIP	100	5%	1/16W	R3258	1-208-755-11	METAL CHIP	75		1/10W
R3204	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3259	1-216-853-11	RES-CHIP	470K	5%	1/16W
R3204	1-216-809-11	RES-CHIP	100	5%	1/16W	R3260	1-216-853-11	RES-CHIP	470K	5%	1/16W
R3207	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3261	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R3208	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3262	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R3209	1-216-809-11	RES-CHIP	100	5%	1/16W	R3263	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3210	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3264	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3211	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3265	1-216-857-11	RES-CHIP	1M	5%	1/16W
R3212	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3266	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3213	1-216-809-11	RES-CHIP	100	5%	1/16W	R3267	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3215	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3268	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3216	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3269	1-216-809-11	RES-CHIP	100	5%	1/16W
R3217	1-216-809-11	RES-CHIP	100	5%	1/16W	R3270	1-249-382-11	CARBON	1.2	5%	1/4W
R3218	1-216-809-11	RES-CHIP	100	5%	1/16W	R3272	1-216-841-11	RES-CHIP	47K	5%	1/16W
R3219	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3273	1-216-819-11	RES-CHIP	680	5%	1/16W
R3220	1-216-809-11	RES-CHIP	100	5%	1/16W	R3275	1-216-819-11	RES-CHIP	680	5%	1/16W
R3221	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3276	1-216-819-11	RES-CHIP	680	5%	1/16W
R3222	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3277	1-216-819-11	RES-CHIP	680	5%	1/16W
R3223	1-216-809-11	RES-CHIP	100	5%	1/16W	R3279	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3224	1-216-815-11	RES-CHIP	330	5%	1/16W	R3280	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3226	1-216-809-11	RES-CHIP	100	5%	1/16W	R3281	1-208-755-11	METAL CHIP	75	0.50%	1/10W
R3227	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3282	1-208-755-11	METAL CHID	75	0.50%	1/10W
								METAL CHIP	75	0.50%	1/1000
R3228	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3284	1-216-864-11	SHORT	470	F 0/	4/40\4/
R3229	1-216-809-11	RES-CHIP	100	5%	1/16W	R3285	1-216-817-11	RES-CHIP	470	5%	1/16W
R3230	1-216-809-11	RES-CHIP	100	5%	1/16W	R3286	1-218-716-11	METAL CHIP	10K		1/16W
R3231	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3287	1-216-817-11	RES-CHIP	470	5%	1/16W
R3232	1-216-809-11	RES-CHIP	100	5%	1/16W	R3288	1-218-686-11	METAL CHIP	560	0.50%	1/16W
R3233	1-216-809-11	RES-CHIP	100	5%	1/16W	R3289	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3234	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3290	1-216-809-11	RES-CHIP	100	5%	1/16W
R3235	1-216-809-11	RES-CHIP	100	5%	1/16W	R3291	1-216-842-11	RES-CHIP	56K	5%	1/16W
R3236	1-216-809-11	RES-CHIP	100	5%	1/16W	R3292	1-216-857-11	RES-CHIP	1M	5%	1/16W
D2240	1 216 925 11	RES-CHIP	2.2K	5%	1/16W	R3293	1 216 902 11	RES-CHIP	33	5%	1/16W
R3240	1-216-825-11						1-216-803-11				
R3241	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3294	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3242	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3296	1-216-845-11	RES-CHIP	100K	5%	1/16W
R3244	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3297	1-216-841-11	RES-CHIP	47K	5%	1/16W



REF.NO.	PART NO.	DESCRIPTION	VALU	ES		REF.NO.	PART NO.	DESCRIPTION	VALU	JES	
R3298	1-208-755-11	METAL CHIP	75	0.50%	1/10W	R3343	1-216-809-11	RES-CHIP	100	5%	1/16W
R3299	1-208-755-11	METAL CHIP	75	0.50%	1/10W	R3344	1-216-853-11	RES-CHIP	470K	5%	1/16W
R3300	1-208-755-11	METAL CHIP	75	0.50%	1/10W	R3345	1-218-704-11	METAL CHIP	3.3K	0.50%	1/16W
R3301	1-216-809-11	RES-CHIP	100	5%	1/16W	R3346	1-216-809-11	RES-CHIP	100	5%	1/16W
R3302	1-218-684-11	METAL CHIP	470		1/16W	R3347	1-216-815-11	RES-CHIP	330	5%	1/16W
Dooon	4 040 740 44	METAL OUID	0.01/	0.500/	4 (4 0) 8 (D0040	1 010 001 11	OLIOPT			
R3303	1-218-712-11	METAL CHIP	6.8K		1/16W	R3348	1-216-864-11	SHORT	000	0.500/	4/40\\
R3304	1-218-692-11	METAL CHIP	1K		1/16W	R3349	1-218-687-11	METAL CHIP	620		1/16W
R3305	1-216-809-11	RES-CHIP	100	5%	1/16W	R3350	1-216-814-11	RES-CHIP	270	5%	1/16W
R3306	1-216-809-11	RES-CHIP	100	5%	1/16W	R3351	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3307	1-216-864-11	SHORT				R3352	1-216-853-11	RES-CHIP	470K	5%	1/16W
R3308	1-216-864-11	SHORT				R3353	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3309	1-211-987-11	METAL CHIP	56	0.50%	1/16W	R3354	1-216-813-11	RES-CHIP	220	5%	1/16W
R3310	1-211-987-11	METAL CHIP	56	0.50%	1/16W	R3355	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3311	1-211-987-11	METAL CHIP	56	0.50%	1/16W	R3356	1-216-864-11	SHORT			
R3312	1-211-987-11	METAL CHIP	56	0.50%	1/16W	R3357	1-218-676-11	METAL CHIP	220	0.50%	1/16W
R3313	1-216-835-11	RES-CHIP	15K	5%	1/16W	R3358	1-218-676-11	METAL CHIP	220	0.50%	1/16W
R3314	1-211-990-11	METAL CHIP	75		1/16W	R3359	1-218-676-11	METAL CHIP	220		1/16W
	1-211-990-11				1/16W						
R3315		RES-CHIP	15K	5%		R3360	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R3316	1-211-989-11	METAL CHIP	68		1/16W	R3361	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3317	1-211-989-11	METAL CHIP	68	0.50%	1/16W	R3364	1-216-864-11	SHORT			
R3318	1-211-990-11	METAL CHIP	75	0.50%	1/16W	R3366	1-216-864-11	SHORT			
R3319	1-211-987-11	METAL CHIP	56	0.50%	1/16W	R3367	1-216-803-11	RES-CHIP	33	5%	1/16W
R3320	1-211-987-11	METAL CHIP	56	0.50%	1/16W	R3369	1-216-864-11	SHORT			
R3321	1-211-987-11	METAL CHIP	56	0.50%	1/16W	R3371	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R3322	1-211-987-11	METAL CHIP	56	0.50%	1/16W	R3372	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R3323	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3373	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R3324	1-216-827-11	RES-CHIP	3.3K	5%	1/16W	R3382	1-216-864-11	SHORT	. •	0.0070	
R3325	1-216-827-11	RES-CHIP	3.3K	5%	1/16W	R3401	1-218-694-11	METAL CHIP	1.2K	0.50%	1/16W
R3326	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3403	1-218-692-11	METAL CHIP	1K		1/16W
R3327	1-216-835-11	RES-CHIP	15K	5%	1/16W	R3404	1-216-864-11	SHORT		0.0070	
		011077						011000			
R3328	1-216-864-11	SHORT	000	=0/	4440044	R3405	1-216-864-11	SHORT	4016	=0/	4/4014/
R3329	1-216-815-11	RES-CHIP	330	5%	1/16W	R3410	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3330	1-216-815-11	RES-CHIP	330	5%	1/16W	R3421	1-216-295-91	SHORT			
R3331	1-216-841-11	RES-CHIP	47K	5%	1/16W	R3422	1-216-295-91	SHORT		-0/	
R3332	1-218-272-11	RES-CHIP	5.1K	5%	1/16W	R3423	1-216-813-11	RES-CHIP	220	5%	1/16W
R3333	1-216-864-11	SHORT				R3429	1-216-823-11	RES-CHIP	1.5K	5%	1/16W
R3334	1-216-809-11	RES-CHIP	100	5%	1/16W	R3432	1-216-815-11	RES-CHIP	330	5%	1/16W
R3335	1-216-833-11	RES-CHIP	10K	5%	1/16W	R3434	1-216-809-11	RES-CHIP	100	5%	1/16W
R3337	1-216-820-11	RES-CHIP	820	5%	1/16W	R3445	1-216-864-11	SHORT			
R3338	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3446	1-216-821-11	RES-CHIP	1K	5%	1/16W
Dasau	1 216 255 11	DEC CHID	€0UI√	5 0/	1/16\\\	D2447	1 216 210 11	DEC CHID	680	5%	1/16W
R3339 R3340	1-216-855-11 1-216-855-11	RES-CHIP RES-CHIP	680K 680K	5% 5%	1/16W 1/16W	R3447 R3448	1-216-819-11 1-216-855-11	RES-CHIP RES-CHIP	680K	5% 5%	1/16W
R3341	1-216-813-11	RES-CHIP	220	5% 5%	1/16W	R3452	1-216-295-91	SHORT	1000	J /0	1/ 1000
R3342	1-220-158-11	RES-CHIP	3.6K	5% 5%	1/16W	R3454	1-216-825-91	RES-CHIP	2.2K	5%	1/16W
NJJ42	1-220-100-11	INLO-OHIIF	J.UN	J /0	1/1000	1 13434	1-210-020-11	INLO-OHIIF	۷.۷۱	J /0	1/ 10//



RAME	_	REF.NO.	PART NO.	DESCRIPTION	VALUES			REF.NO.	PART NO.	DESCRIPTION	VALUES		
R3464 1216-821-11 RES-CHIP 1K 5% 1/10W R3627 12/16-815-11 RES-CHIP 300 5% 1/16W R3467 12/16-821-11 RES-CHIP 100 5% 1/16W R3630 12/16-809-11 RES-CHIP 100 5% 1/16W R3630 12/16-809-11 RES-CHIP 100 5% 1/16W R3630 12/16-809-11 RES-CHIP 100 5% 1/16W R3631 12/16-801-11 RES-CHIP 100 5% 1/16W R3631 12/16-801-11 RES-CHIP 100 5% 1/16W R3631 12/16-801-11 RES-CHIP 1K 5% 1/16W R3634 12/16-801-11 RES-CHIP 2/2 5% 1/16W R3634 12/16-801-11 RES-CHIP 2/2 5% 1/16W R3634 12/16-801-11 RES-CHIP 2/2 5% 1/16W R3634 12/16-801-11 RES-CHIP 47 5% 1/16W R3634 12/16-801-11 RES-CHIP 2/2 5% 1/16W R3635 12/16-801-11 RES-CHIP 2/2 5% 1/16W R3636 12/16-801-11 RES-CHIP 2/2 5% 1/16W R		R3460	1-216-833-11	RES-CHIP	10K	5%	1/16W	R3625	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3465 1-216-80-11 RES-CHIP 1K 5% 1/16W R3630 1-216-80-91 RES-CHIP 100 5% 1/16W R3477 1-216-80-91 RES-CHIP 100 5% 1/16W R3477 1-216-80-91 RES-CHIP 100 5% 1/16W R3472 1-216-80-91 RES-CHIP 1K 5% 1/16W R3473 1-216-80-91 RES-CHIP 1K 5% 1/16W R3473 1-216-80-91 RES-CHIP 1K 5% 1/16W R3473 1-216-80-91 RES-CHIP 1K 5% 1/16W R3474 1-216-80-91 RES-CHIP 1K 5% 1/16W R3474 1-216-80-91 RES-CHIP 1K 5% 1/16W R3473 1-216-80-91 RES-CHIP 1K 5% 1/16W R3474 1-216-80-91 RES-CHIP 1M 5% 1/16W R3474 1-216-80-91 RES-CHIP 1M 5% 1/16W R3474 1-216-80-91 RES-CHIP 1M 5% 1/16W R3484 1-216-80-91 RES-CHIP 1M 5% 1/16W R3484 1-216-80-91 RES-CHIP 22		R3461	1-216-833-11	RES-CHIP	10K	5%	1/16W	R3626	1-216-815-11	RES-CHIP	330	5%	1/16W
R3465 1-216-80-11 RES-CHIP 1K 5% 1/16W R3630 1-216-80-91 RES-CHIP 100 5% 1/16W R3477 1-216-80-91 RES-CHIP 100 5% 1/16W R3477 1-216-80-91 RES-CHIP 100 5% 1/16W R3472 1-216-80-91 RES-CHIP 1K 5% 1/16W R3473 1-216-80-91 RES-CHIP 1K 5% 1/16W R3473 1-216-80-91 RES-CHIP 1K 5% 1/16W R3473 1-216-80-91 RES-CHIP 1K 5% 1/16W R3474 1-216-80-91 RES-CHIP 1K 5% 1/16W R3474 1-216-80-91 RES-CHIP 1K 5% 1/16W R3473 1-216-80-91 RES-CHIP 1K 5% 1/16W R3474 1-216-80-91 RES-CHIP 1M 5% 1/16W R3474 1-216-80-91 RES-CHIP 1M 5% 1/16W R3474 1-216-80-91 RES-CHIP 1M 5% 1/16W R3484 1-216-80-91 RES-CHIP 1M 5% 1/16W R3484 1-216-80-91 RES-CHIP 22		R3464	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3627	1-216-815-11	RES-CHIP	330	5%	1/16W
R8470 1-216-80-411 RES-CHIP 100 5% 11/6W R0540 1-216-821-11 RES-CHIP 1K 5% 11/6W R0541 1-216-821-11 RES-CHIP 1K 5% 11/6W R0541 1-216-821-11 RES-CHIP 1K 5% 11/6W R0541 1-216-821-11 RES-CHIP 1K 5% 11/6W R0542 1-216-821-11 RES-CHIP 1K 5% 11/6W R0543 1-216-821-11 RES-CHIP 1M 5% 11/6W R0543 1-216-821-11 RES-CHIP 1K 5% 11/6W R0543 1-216-821-11 RES-CHIP 1K 5% 11/6W R0543 1-216-821-11 RES-CHIP 100 3% 11/6W R0543 1-216-821-11 RES-CHIP 100 3% 11/6W R0543 1-216-801-11 RES-CHIP 100 3% 11/6W R0543 1-216-801-11 RES-CHIP 47 5% 11/6W R0543 1-216-801-11 RES-CHIP 20 5% 11/6W R0543 1-21		R3465	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3628	1-216-815-11	RES-CHIP	330	5%	1/16W
R3471 1.218-821-11		R3467	1-216-057-00	RES-CHIP		5%	1/10W		1-216-809-11	RES-CHIP		5%	1/16W
R3471 1.218-821-11													
R8472 1.216.801-11 RES.CHIP 22 5% 1/16W R3642 1.216.826-11 RES.CHIP 10K 5% 1/16W R3673 1.216.826-11 RES.CHIP 22 5% 1/16W R3673 1.216.826-11 RES.CHIP 22 5% 1/16W R3673 1.216.806-11 RES.CHIP 22 5% 1/16W R3683 1.216.806-11 RES.CHIP 47 5% 1/16W R3684 1.216.806-11 RES.CHIP 47 5% 1/16W R3683 1.216.806-11 RES.CHIP 20 5% 1/16W R3683 1.216.806-11 RES.CHIP 20 5% 1/16W R3683 1.216.806-11 RES.CHIP 20 5% 1/16W R3683 1.216.816-11 RES.CHIP 20 5% 1/16W R3683 1.216.836-11 RES.CHIP 20 5% 1/16W R3683 1													
R3475 1-216-80-11 RES-CHIP 100 5% 116W R3484 1-216-835-11 RES-CHIP 10K 5% 116W R3475 1-216-821-11 RES-CHIP 10K 5% 116W R3477 1-216-821-11 RES-CHIP 10K 5% 116W R3477 1-216-821-11 RES-CHIP 10K 5% 116W R3477 1-216-821-11 RES-CHIP 22K 5% 110W R3466 1-216-813-11 RES-CHIP 220 5% 116W R3483 1-216-821-11 RES-CHIP 22K 5% 116W R3486 1-216-801-11 RES-CHIP 220 5% 116W R3481 1-216-801-11 RES-CHIP 10K 5% 116W R3481 1-216-801-11 RES-CHIP 47 5% 116W R3481 1-216-801-11 RES-CHIP 47 5% 116W R3481 1-216-801-11 RES-CHIP 47 5% 116W R3489 1-216-801-11 RES-CHIP 47 5% 116W R3481 1-216-801-11 RES-CHIP 20 5% 11													
R3476 1-216-821-11 RES-CHIP													
R3477 1-218-701-11 METAL CHIP 2-4K 0.50% 1/16W R3645 1-216-821-11 RES-CHIP 20 5% 1/16W R3646 1-216-813-11 RES-CHIP 20 5% 1/16W R3646 1-216-813-11 RES-CHIP 20 5% 1/16W R3646 1-216-813-11 RES-CHIP 20 5% 1/16W R3646 1-216-809-11 RES-CHIP 100 5% 1/16W R3646 1-216-809-11 RES-CHIP 47 5% 1/16W R3645 1-216-809-11 RES-CHIP 47 5% 1/16W R3646 1-216-809-11 RES-CHIP 47 5% 1/16W R3646 1-216-805-11 RES-CHIP 47 5% 1/16W R3646 1-216-805-11 RES-CHIP 47 5% 1/16W R3646 1-216-805-11 RES-CHIP 47 5% 1/16W R3649 1-216-805-11 RES-CHIP 47 5% 1/16W R3649 1-216-805-11 RES-CHIP 47 5% 1/16W R3650 1-216-805-11 RES-CHIP 20 5% 1/16W R3650 1-216-813-11 RES-CHIP 20 5% 1/16W R3650 1-216-813-11 RES-CHIP 20 5% 1/16W R3650 1-216-813-11 RES-CHIP 20 5% 1/16W R3650 1-216-825-11 RES-CHIP 20 5% 1/16W R3650 1-216-809-11 RES-CHIP 20 5% 1/16W R3660 1-216-809-11 RES-CHIP 20 5% 1/16W R3661													
R3478 1-216-07-00 RES-CHIP 2.4K 5.5W 1/16W R3646 1-216-809-11 RES-CHIP 100 5% 1/16W R3484 1-216-809-11 RES-CHIP 100 5% 1/16W R3484 1-216-809-11 RES-CHIP 100 5% 1/16W R3484 1-216-809-11 RES-CHIP 100 5% 1/16W R3485 1-216-801-11 RES-CHIP 1K 5% 1/16W R3649 1-216-809-11 RES-CHIP 47 5% 1/16W R3649 1-216-805-11 RES-CHIP 47 5% 1/16W R3651 1-216-805-11 RES-CHIP 100 5% 1/16W R3651 1-216-805-11 RES-CHIP 100 5% 1/16W R3651 1-216-801-11 RES-CHIP 20 5% 1/16W R3652 1-216-801-11 RES-CHIP 20 5% 1/16W R3653 1-216-813-11 RES-CHIP 20 5% 1/16W R3653 1-216-813-11 RES-CHIP 20 5% 1/16W R3653 1-216-825-11 RES-CHIP 20 5% 1/16W R3655 1-216-825-11 RES-CHIP 20 5% 1/16W R3659 1-216-825-11 RES-CHIP 20 20 5% 1/16W R3659 1-216-815-11 RES-CHIP 300 5% 1/16W R3651 1-216-815-11 RES-CHIP 20 20 5% 1/16W R3651 1-216-815-11 RES-CHIP 20 20 5% 1/16W R3651 1-216-815-11 RES-CHIP 20 5% 1/16W R3651 1-216-815-11 RES-CHIP 20 5% 1/16W R3651 1-216-815-11 RES-CHIP 300 5% 1/16W R3651 1-216-815-11 RES-CHIP 300 5% 1/16W R3651 1-216-809		R3476	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3644	1-216-857-11	RES-CHIP	1M	5%	1/16W
R3478 1-216-07-00 RES-CHIP 2.4K 5.5W 1/16W R3646 1-216-809-11 RES-CHIP 100 5% 1/16W R3484 1-216-809-11 RES-CHIP 100 5% 1/16W R3484 1-216-809-11 RES-CHIP 100 5% 1/16W R3484 1-216-809-11 RES-CHIP 100 5% 1/16W R3485 1-216-801-11 RES-CHIP 1K 5% 1/16W R3649 1-216-809-11 RES-CHIP 47 5% 1/16W R3649 1-216-805-11 RES-CHIP 47 5% 1/16W R3651 1-216-805-11 RES-CHIP 100 5% 1/16W R3651 1-216-805-11 RES-CHIP 100 5% 1/16W R3651 1-216-801-11 RES-CHIP 20 5% 1/16W R3652 1-216-801-11 RES-CHIP 20 5% 1/16W R3653 1-216-813-11 RES-CHIP 20 5% 1/16W R3653 1-216-813-11 RES-CHIP 20 5% 1/16W R3653 1-216-825-11 RES-CHIP 20 5% 1/16W R3655 1-216-825-11 RES-CHIP 20 5% 1/16W R3659 1-216-825-11 RES-CHIP 20 20 5% 1/16W R3659 1-216-815-11 RES-CHIP 300 5% 1/16W R3651 1-216-815-11 RES-CHIP 20 20 5% 1/16W R3651 1-216-815-11 RES-CHIP 20 20 5% 1/16W R3651 1-216-815-11 RES-CHIP 20 5% 1/16W R3651 1-216-815-11 RES-CHIP 20 5% 1/16W R3651 1-216-815-11 RES-CHIP 300 5% 1/16W R3651 1-216-815-11 RES-CHIP 300 5% 1/16W R3651 1-216-809		R3477	1-218-701-11	METAL CHIP	2 4K	0.50%	1/16\W	R3645	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3483 1218-701-11 METAL CHIP 2.4K 0.50% 1/16W R3464 1.216-805-11 RES-CHIP 47 5% 1/16W R3484 1.216-805-11 RES-CHIP 47 5% 1/16W R3485 1.216-805-11 RES-CHIP 47 5% 1/16W R3486 1.216-805-11 RES-CHIP 470 5% 1/16W R3489 1.216-805-11 RES-CHIP 470 5% 1/16W R3489 1.216-805-11 RES-CHIP 20 5% 1/16W R3481 1.216-805-11 RES-CHIP 20 5% 1/16W R3481 1.216-805-11 RES-CHIP 20 5% 1/16W R3481 1.216-805-11 RES-CHIP 20 5% 1/16W R3485 1.216-805-11 RES-CHIP 2.2K 5% 1/16W R3485 1.216-805-11 RES-CHIP 2.2 5% 1/16W R3486 1.216-805-11 RES-CHIP 2.2 5% 1/16W R3486 1.216-805-11 RES-CHIP 2.2 2.5 1/16W R3486 1.216-805-11 RES-CHIP 2.2 3.5 1/16W R3486 1.216-805-11 RES-CHIP 3.3 3.5 1/16W R3486 1.216-805-11 RES-CHIP 3.3 3.5 1/16W R3486 1.216-805-11 RES-CHIP 3.3 3.5 1/16W R3486 1.216-805-11 RES-CHIP 3.5 3.													
R3484 1-216-821-11 RES-CHIP													
R3485 1-216-821-11 RES-CHIP 1K 5% 1/16W R3669 1-216-805-11 RES-CHIP 47 5% 1/16W R3489 1-216-801-11 RES-CHIP 22 5% 1/16W R3660 1-216-801-11 RES-CHIP 470 5% 1/16W R3499 1-216-804-11 SHORT R3661 1-216-801-11 RES-CHIP 100 5% 1/16W R3490 1-216-821-11 RES-CHIP 1K 5% 1/16W R3663 1-216-813-11 RES-CHIP 220 5% 1/16W R3491 1-216-821-11 RES-CHIP 220 5% 1/16W R3492 1-216-057-00 RES-CHIP 2 2K 5% 1/16W R3663 1-216-813-11 RES-CHIP 2 2C 5% 1/16W R3493 1-218-701-11 METAL CHIP 2 4K 0.50% 1/16W R3665 1-216-825-11 RES-CHIP 2 2K 5% 1/16W R3495 1-216-801-11 RES-CHIP 1K 5% 1/16W R3666 1-216-825-11 RES-CHIP 2 2K 5% 1/16W R3496 1-216-821-11 RES-CHIP 2 2 5% 1/16W R3496 1-216-821-11 RES-CHIP 2 2 5% 1/16W R3496 1-216-821-11 RES-CHIP 2 2 5% 1/16W R3498 1-216-818-11 RES-CHIP 3 30 5% 1/16W R3498 1-216-818-11 RES-CHIP 4.7K 5% 1/16W R3669 1-216-818-11 RES-CHIP 3 30 5% 1/16W R3660 1-216-818-11 RES-CHIP 3 30 5% 1/16W R3660 1-216-818-11 RES-CHIP 3 30 5% 1/16W R3661 1-216-801-11 RES-CHIP 1 K 5% 1/16W R3663 1-216-801-11 RES-CHIP 2 2K 5% 1/16W R3661 1-216-801-11 RES-CHIP 1 K 5% 1/16W R3663 1-216-801-11 RES-CHIP 2 2K 5% 1/16W R3661 1-216-801-11 RES-CHIP 1 K 5% 1/16W R3661 1-216-801-11 RES-CHIP 2 2K 5% 1/16W R3661 1-216-801-11 RES-CHIP 2 2K 5% 1/16W R3661 1-216-801-11 RES-CHIP 2 20 5% 1/16W R3661 1-216-801-11 RES-CHIP 2 20 5% 1/16W R3661 1-216-801-11 RES-CHIP 2													
R3486													
R3489													
R3490		R3486	1-216-801-11	RES-CHIP	22	5%	1/16W	R3650	1-216-817-11	RES-CHIP	470	5%	1/16W
R3491 1-216-821-11 RES-CHIP 1K 5% 1/16W R3653 1-216-813-11 RES-CHIP 220 5% 1/16W R3492 1-216-057-00 RES-CHIP 2.2K 5% 1/10W R3654 1-216-813-11 RES-CHIP 220 5% 1/16W R3493 1-216-821-11 RES-CHIP 2.4K 0.50% 1/16W R3655 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3495 1-216-821-11 RES-CHIP 1K 5% 1/16W R3656 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3496 1-216-821-11 RES-CHIP 2.2 K 5% 1/16W R3496 1-216-821-11 RES-CHIP 2.2 K 5% 1/16W R3497 1-216-825-11 RES-CHIP 330 5% 1/16W R3498 1-216-811-11 RES-CHIP 560 5% 1/16W R3658 1-216-815-11 RES-CHIP 330 5% 1/16W R3662 1-216-815-11 RES-CHIP 100 5% 1/16W R3662 1-216-815-11 RES-CHIP 22K 5% 1/16W R3661 1-216-837-11 RES-CHIP 22K 5% 1/16W R3662 1-216-837-11 RES-CHIP 22K 5% 1/16W R3661 1-216-837-11 RES-CHIP 22K 5% 1/16W R3662 1-216-837-11 RES-CHIP 22K 5% 1/16W R3663 1-216-837-11 RES-CHIP 22K 5% 1/16W R3664 1-216-837-11 RES-CHIP 47K 5% 1/16W R3665 1-216-837-11 RES-CHIP 47K 5% 1/16W R3666 1-216-809-11 RES-CHIP 470 5% 1/16W R3667 1-216-809-11 RES-CHIP 100 5% 1/16W R3667 1-216-809-11 RES-CHIP 100 5% 1/16W R3661 1-216-809-11 RES-CHIP 20 5% 1/16W R3667 1-216-809-11 RES-CHIP 20 5% 1/16W R3667 1-216-809-11 RES-CHIP 20 5% 1/16W R3661 1-216-809-11 RES-CHIP 20 5% 1/16W R3667 1-216-809-11 RES-CHIP 20 5% 1/16W R3661 1-216-809-11 RES-CHIP 20 5% 1/16W R3662 1-216-809-11 RES-CHIP 20 5% 1/16W R3662 1-216-809-11 RES-C		R3489	1-216-864-11	SHORT				R3651	1-216-809-11	RES-CHIP	100	5%	1/16W
R3492 1-216-057-00 RES-CHIP 2.2K 5% 1/10W R3654 1-216-813-11 RES-CHIP 220 5% 1/16W R3493 1-216-821-11 RES-CHIP 2.4K 0.50% 1/16W R3495 1-216-821-11 RES-CHIP 1K 5% 1/16W R3656 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3495 1-216-801-11 RES-CHIP 1K 5% 1/16W R3656 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3496 1-216-801-11 RES-CHIP 2.2 5% 1/16W R3657 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3497 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3659 1-216-815-11 RES-CHIP 330 5% 1/16W R3498 1-216-818-11 RES-CHIP 560 5% 1/16W R3659 1-216-815-11 RES-CHIP 330 5% 1/16W R3602 1-216-809-11 RES-CHIP 100 5% 1/16W R3600 1-216-809-11 RES-CHIP 100 5% 1/16W R3601 1-216-809-11 RES-CHIP 100 5% 1/16W R3600 1-216-821-11 RES-CHIP 100 5% 1/16W R3601 1-216-809-11 RES-CHIP 22K 5% 1/16W R3601 1-216-821-11 RES-CHIP 100 5% 1/16W R3601 1-216-821-11 RES-CHIP 22K 5% 1/16W R3601 1-216-821-11 RES-CHIP 100 5% 1/16W R3607 1-216-829-11 RES-CHIP 100 5% 1/16W R3611 1-216-821-11 RES-CHIP 200 5% 1/16W R3611 1-216-821-11 RES-CHIP 200 5% 1/16W R3611 1-216-821-11 RES-CHIP 200 5% 1/16W R3611 1-216-821-11		R3490	1-216-864-11	SHORT				R3652	1-216-813-11	RES-CHIP	220	5%	1/16W
R3493 1-216-701-11 METAL CHIP 2.4K 0.50% 1/16W R3495 1-216-821-11 RES-CHIP 1K 5% 1/16W R3495 1-216-821-11 RES-CHIP 1K 5% 1/16W R3656 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3496 1-216-802-11 RES-CHIP 2.2K 5% 1/16W R3497 1-216-829-11 RES-CHIP 4.7K 5% 1/16W R3657 1-216-825-11 RES-CHIP 330 5% 1/16W R3498 1-216-818-11 RES-CHIP 560 5% 1/16W R3658 1-216-815-11 RES-CHIP 330 5% 1/16W R3498 1-216-818-11 RES-CHIP 560 5% 1/16W R3659 1-216-815-11 RES-CHIP 330 5% 1/16W R3602 1-216-809-11 RES-CHIP 100 5% 1/16W R3660 1-216-809-11 RES-CHIP 100 5% 1/16W R3602 1-216-809-11 RES-CHIP 100 5% 1/16W R3601 1-216-808-11 RES-CHIP 22K 5% 1/16W R3601 1-216-808-11 RES-CHIP 22K 5% 1/16W R3601 1-216-837-11 RES-CHIP 22K 5% 1/16W R3601 1-216-831-11 RES-CHIP 100 5% 1/16W R3601 1-216-831-11 RES-CHIP 100 5% 1/16W R3601 1-216-809-11 RES-CHIP 100 5% 1/16W R3611 1-216-809-11 RES-CHIP 100 5% 1/16W R3621 1-216-809-11 RES-CHIP 100 5% 1/16W R3621 1-216-809-11		R3491	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3653	1-216-813-11	RES-CHIP	220	5%	1/16W
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R3612 1-216-857-11 RES-CHIP 1M 5% 1/16W R3666 1-216-809-11 RES-CHIP 100 5% 1/16W R3613 1-216-821-11 RES-CHIP 1K 5% 1/16W R3667 1-216-839-11 RES-CHIP 33K 5% 1/16W R3614 1-216-813-11 RES-CHIP 220 5% 1/16W R3668 1-216-797-11 RES-CHIP 10 5% 1/16W R3615 1-216-809-11 RES-CHIP 100 5% 1/16W R3669 1-216-809-11 RES-CHIP 10 5% 1/16W R3616 1-216-805-11 RES-CHIP 47 5% 1/16W R3672 1-216-809-11 RES-CHIP 100 5% 1/16W R3617 1-216-805-11 RES-CHIP 47 5% 1/16W R3673 1-216-804-11 SHORT 1/16W R3673 1-216-809-11 RES-CHIP 100 5% 1/16W R3618 1-216-805-11 RES-CHIP 470			1-216-821-11				1/16W		1-216-841-11	RES-CHIP			
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R3613 1-216-821-11 RES-CHIP 1K 5% 1/16W R3667 1-216-839-11 RES-CHIP 33K 5% 1/16W R3614 1-216-813-11 RES-CHIP 220 5% 1/16W R3668 1-216-797-11 RES-CHIP 10 5% 1/16W R3615 1-216-809-11 RES-CHIP 100 5% 1/16W R3669 1-216-809-11 RES-CHIP 100 5% 1/16W R3616 1-216-805-11 RES-CHIP 47 5% 1/16W R3672 1-216-809-11 RES-CHIP 100 5% 1/16W R3617 1-216-805-11 RES-CHIP 47 5% 1/16W R3673 1-216-809-11 RES-CHIP 100 5% 1/16W R3618 1-216-817-11 RES-CHIP 470 5% 1/16W R3674 1-216-813-11 RES-CHIP 220 5% 1/16W R3619 1-216-809-11 RES-CHIP 100 5% 1/16W R3675 1-216-813-11 R													
R3614 1-216-813-11 RES-CHIP 220 5% 1/16W R3668 1-216-797-11 RES-CHIP 10 5% 1/16W R3615 1-216-809-11 RES-CHIP 100 5% 1/16W R3669 1-216-809-11 RES-CHIP 100 5% 1/16W R3616 1-216-805-11 RES-CHIP 47 5% 1/16W R3672 1-216-804-11 SHORT R3617 1-216-805-11 RES-CHIP 47 5% 1/16W R3673 1-216-809-11 RES-CHIP 100 5% 1/16W R3618 1-216-817-11 RES-CHIP 470 5% 1/16W R3674 1-216-813-11 RES-CHIP 220 5% 1/16W R3619 1-216-809-11 RES-CHIP 100 5% 1/16W R3675 1-216-813-11 RES-CHIP 220 5% 1/16W R3620 1-216-813-11 RES-CHIP 220 5% 1/16W R3676 1-216-809-11 RES-CHIP 100 5%													
R3615 1-216-809-11 RES-CHIP 100 5% 1/16W R3669 1-216-809-11 RES-CHIP 100 5% 1/16W R3616 1-216-805-11 RES-CHIP 47 5% 1/16W R3672 1-216-864-11 SHORT R3617 1-216-805-11 RES-CHIP 47 5% 1/16W R3673 1-216-809-11 RES-CHIP 100 5% 1/16W R3618 1-216-817-11 RES-CHIP 470 5% 1/16W R3674 1-216-813-11 RES-CHIP 220 5% 1/16W R3619 1-216-809-11 RES-CHIP 100 5% 1/16W R3675 1-216-813-11 RES-CHIP 220 5% 1/16W R3620 1-216-813-11 RES-CHIP 220 5% 1/16W R3676 1-216-809-11 RES-CHIP 100 5% 1/16W R3621 1-216-813-11 RES-CHIP 220 5% 1/16W R3677 1-216-809-11 RES-CHIP 100 5% <td< td=""><td></td><td></td><td>1-216-821-11</td><td></td><td></td><td></td><td></td><td>R3667</td><td>1-216-839-11</td><td></td><td></td><td></td><td></td></td<>			1-216-821-11					R3667	1-216-839-11				
R3616 1-216-805-11 RES-CHIP 47 5% 1/16W R3672 1-216-864-11 SHORT R3617 1-216-805-11 RES-CHIP 47 5% 1/16W R3673 1-216-809-11 RES-CHIP 100 5% 1/16W R3618 1-216-817-11 RES-CHIP 470 5% 1/16W R3674 1-216-813-11 RES-CHIP 220 5% 1/16W R3619 1-216-809-11 RES-CHIP 100 5% 1/16W R3675 1-216-813-11 RES-CHIP 220 5% 1/16W R3620 1-216-813-11 RES-CHIP 220 5% 1/16W R3676 1-216-809-11 RES-CHIP 100 5% 1/16W R3621 1-216-813-11 RES-CHIP 220 5% 1/16W R3677 1-216-809-11 RES-CHIP 100 5% 1/16W R3622 1-216-813-11 RES-CHIP 220 5% 1/16W R3678 1-216-809-11 RES-CHIP 100 5% 1/16W R3623 1-216-825-11 RES-CHIP 220 5% 1/16W R3679 1-216-809-11 RES-CHIP 100 5% 1/16W			1-216-813-11	RES-CHIP	220			R3668	1-216-797-11	RES-CHIP			
R3617 1-216-805-11 RES-CHIP 47 5% 1/16W R3673 1-216-809-11 RES-CHIP 100 5% 1/16W R3618 1-216-817-11 RES-CHIP 470 5% 1/16W R3674 1-216-813-11 RES-CHIP 220 5% 1/16W R3619 1-216-809-11 RES-CHIP 100 5% 1/16W R3675 1-216-813-11 RES-CHIP 220 5% 1/16W R3620 1-216-813-11 RES-CHIP 220 5% 1/16W R3676 1-216-809-11 RES-CHIP 100 5% 1/16W R3621 1-216-813-11 RES-CHIP 220 5% 1/16W R3677 1-216-809-11 RES-CHIP 100 5% 1/16W R3622 1-216-813-11 RES-CHIP 220 5% 1/16W R3678 1-216-809-11 RES-CHIP 100 5% 1/16W R3623 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3679 1-216-809-11 <		R3615	1-216-809-11	RES-CHIP	100	5%	1/16W	R3669	1-216-809-11	RES-CHIP	100	5%	1/16W
R3617 1-216-805-11 RES-CHIP 47 5% 1/16W R3673 1-216-809-11 RES-CHIP 100 5% 1/16W R3618 1-216-817-11 RES-CHIP 470 5% 1/16W R3674 1-216-813-11 RES-CHIP 220 5% 1/16W R3619 1-216-809-11 RES-CHIP 100 5% 1/16W R3675 1-216-813-11 RES-CHIP 220 5% 1/16W R3620 1-216-813-11 RES-CHIP 220 5% 1/16W R3676 1-216-809-11 RES-CHIP 100 5% 1/16W R3621 1-216-813-11 RES-CHIP 220 5% 1/16W R3677 1-216-809-11 RES-CHIP 100 5% 1/16W R3622 1-216-813-11 RES-CHIP 220 5% 1/16W R3678 1-216-809-11 RES-CHIP 100 5% 1/16W R3623 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3679 1-216-809-11 <		P3616	1_216_805_11	RES_CHIP	47	5%	1/16\\	R3672	1_216_864_11	SHORT			
R3618 1-216-817-11 RES-CHIP 470 5% 1/16W R3674 1-216-813-11 RES-CHIP 220 5% 1/16W R3619 1-216-809-11 RES-CHIP 100 5% 1/16W R3675 1-216-813-11 RES-CHIP 220 5% 1/16W R3620 1-216-813-11 RES-CHIP 220 5% 1/16W R3676 1-216-809-11 RES-CHIP 100 5% 1/16W R3621 1-216-813-11 RES-CHIP 220 5% 1/16W R3677 1-216-809-11 RES-CHIP 100 5% 1/16W R3622 1-216-813-11 RES-CHIP 220 5% 1/16W R3678 1-216-809-11 RES-CHIP 100 5% 1/16W R3623 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3679 1-216-809-11 RES-CHIP 100 5% 1/16W											100	5%	1/16W
R3619 1-216-809-11 RES-CHIP 100 5% 1/16W R3675 1-216-813-11 RES-CHIP 220 5% 1/16W R3620 1-216-813-11 RES-CHIP 220 5% 1/16W R3676 1-216-809-11 RES-CHIP 100 5% 1/16W R3621 1-216-813-11 RES-CHIP 220 5% 1/16W R3677 1-216-809-11 RES-CHIP 100 5% 1/16W R3622 1-216-813-11 RES-CHIP 220 5% 1/16W R3678 1-216-809-11 RES-CHIP 100 5% 1/16W R3623 1-216-825-11 RES-CHIP 220 5% 1/16W R3679 1-216-809-11 RES-CHIP 100 5% 1/16W													
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R3622 1-216-813-11 RES-CHIP 220 5% 1/16W R3678 1-216-809-11 RES-CHIP 100 5% 1/16W R3623 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3679 1-216-809-11 RES-CHIP 100 5% 1/16W		R3621	1-216-813-11	RES-CHIP	220	5%	1/16W	R3677	1-216-809-11	RES-CHIP	100	5%	1/16W
		R3622	1-216-813-11	RES-CHIP	220	5%	1/16W	R3678	1-216-809-11	RES-CHIP	100	5%	1/16W
R3624 1-216-825-11 RES-CHIP 2.2K 5% 1/16W R3680 1-216-833-11 RES-CHIP 10K 5% 1/16W		R3623	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3679	1-216-809-11	RES-CHIP	100	5%	1/16W
		R3624	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3680	1-216-833-11	RES-CHIP	10K	5%	1/16W



REF.NO.	PART NO.	DESCRIPTION	VALUE	S		REF.NO.	PART NO.	DESCRIPTION	VALU	ES	
R3681	1-216-833-11	RES-CHIP	10K	5%	1/16W	R3829	1-218-684-11	METAL CHIP	470	0.50%	1/16W
R3682	1-216-837-11	RES-CHIP	22K	5%	1/16W	R3830	1-218-684-11	METAL CHIP	470		1/16W
R3683	1-216-837-11	RES-CHIP	22K	5%	1/16W	R3831	1-216-864-11	SHORT		0.0070	
R3684	1-216-833-11	RES-CHIP	10K	5%	1/16W	R3832	1-216-864-11	SHORT			
R3685	1-216-833-11	RES-CHIP	10K	5%	1/16W	R3833	1-216-864-11	SHORT			
110000	1-210-000-11	NEO-OTIII	1010	370	1/1000	110000	1-210-00-11	OHOITI			
R3686	1-216-833-11	RES-CHIP	10K	5%	1/16W	R3840	1-216-807-11	RES-CHIP	68	5%	1/16W
R3687	1-216-833-11	RES-CHIP	10K	5%	1/16W	R3843	1-218-694-11	METAL CHIP	1.2K	0.50%	1/16W
R3688	1-216-833-11	RES-CHIP	10K	5%	1/16W	R3844	1-218-712-11	METAL CHIP	6.8K	0.50%	1/16W
R3689	1-216-833-11	RES-CHIP	10K	5%	1/16W	R3845	1-218-692-11	METAL CHIP	1K	0.50%	1/16W
R3690	1-216-833-11	RES-CHIP	10K	5%	1/16W	R3846	1-216-801-11	RES-CHIP	22	5%	1/16W
R3691	1-216-833-11	RES-CHIP	10K	5%	1/16W	R3847	1-216-801-11	RES-CHIP	22	5%	1/16W
R3692	1-216-833-11	RES-CHIP	10K	5%	1/16W	R3848	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3693	1-216-833-11	RES-CHIP	10K	5%	1/16W	R3849	1-218-675-11	METAL CHIP	200		1/16W
R3694	1-216-833-11	RES-CHIP	10K	5%	1/16W	R3850	1-218-675-11	METAL CHIP	200		1/16W
R3695	1-216-833-11	RES-CHIP	10K	5%	1/16W	R3851	1-216-809-11	RES-CHIP	100	5%	1/16W
R3696	1-216-833-11	RES-CHIP	10K	5%	1/16W	R3852	1-218-675-11	METAL CHIP	200	0.50%	1/16W
R3697	1-216-833-11	RES-CHIP	10K	5%	1/16W	R3854	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3698	1-216-845-11	RES-CHIP	100K	5%	1/16W	R3857	1-216-809-11	RES-CHIP	100	5%	1/16W
R3699	1-216-845-11	RES-CHIP	100K	5%	1/16W	R3858	1-218-704-11	METAL CHIP	3.3K	0.50%	1/16W
R3800	1-216-864-11	SHORT				R3862	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3802	1-208-762-11	METAL CHIP	150		1/10W	R3863	1-218-700-11	METAL CHIP	2.2K		1/16W
R3803	1-208-762-11	METAL CHIP	150	0.50%	1/10W	R3864	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R3804	1-208-762-11	METAL CHIP	150	0.50%	1/10W	R3865	1-216-809-11	RES-CHIP	100	5%	1/16W
R3805	1-208-762-11	METAL CHIP	150		1/10W	R3866	1-414-234-22	FERRITE	0μΗ		
R3806	1-218-662-11	METAL CHIP	56	0.50%	1/16W	R3867	1-414-234-22	FERRITE	0μΗ		
R3807	1-208-754-11	METAL CHIP	68	0.50%	1/10W	R3868	1-414-234-22	FERRITE	0μH		
R3808	1-208-755-11	METAL CHIP	75		1/10W	R3869	1-218-719-11	METAL CHIP	13K	0.50%	1/16W
R3809	1-208-755-11	METAL CHIP	75		1/10W	R3870	1-218-719-11	METAL CHIP	13K		1/16W
R3810	1-208-758-11	METAL CHIP	100		1/10W	R3871	1-218-719-11	METAL CHIP	13K		1/16W
R3811	1-216-809-11	RES-CHIP	100	5%	1/16W	R3872	1-211-990-11	METAL CHIP	75		1/16W
				-,-							
R3812	1-216-809-11	RES-CHIP	100	5%	1/16W	R3873	1-211-990-11	METAL CHIP	75		1/16W
R3813	1-216-809-11	RES-CHIP	100	5%	1/16W	R3874	1-211-990-11	METAL CHIP	75		1/16W
R3814	1-211-969-11	METAL CHIP	10		1/16W	R3876	1-208-762-11	METAL CHIP	150	0.50%	
R3815	1-211-973-11	METAL CHIP	15		1/16W	R3901	1-216-035-00	RES-CHIP	270	5%	1/10W
R3816	1-211-977-11	METAL CHIP	22	0.50%	1/16W	R3902	1-216-035-00	RES-CHIP	270	5%	1/10W
R3817	1-211-977-11	METAL CHIP	22	0.50%	1/16W	R3903	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3820	1-218-684-11	METAL CHIP	470		1/16W	R3904	1-216-837-11	RES-CHIP	22K	5%	1/16W
R3821	1-218-684-11	METAL CHIP	470		1/16W	R3905	1-216-809-11	RES-CHIP	100	5%	1/16W
R3822	1-218-684-11	METAL CHIP	470		1/16W	R3906	1-216-809-11	RES-CHIP	100	5%	1/16W
R3823			2.7K								
NJ023	1-216-826-11	RES-CHIP	4.1 N	5%	1/16W	R3907	1-216-809-11	RES-CHIP	100	5%	1/16W
R3824	1-216-826-11	RES-CHIP	2.7K	5%	1/16W	R3908	1-216-809-11	RES-CHIP	100	5%	1/16W
R3825	1-216-826-11	RES-CHIP	2.7K	5%	1/16W	R3909	1-216-809-11	RES-CHIP	100	5%	1/16W
R3826	1-216-809-11	RES-CHIP	100	5%	1/16W	R3910	1-216-809-11	RES-CHIP	100	5%	1/16W
R3828	1-218-684-11	METAL CHIP	470	0.50%	1/16W	R3914	1-216-864-11	SHORT			



REF.NO.	PART NO.	DESCRIPTION	VALUE	S		REF.NO.	PART NO.	DESCRIPTION	VALUE	S	
R3915	1-211-969-11	METAL CHIP	10	0.50%	1/16W	RB3414	1-239-409-11	RES, CHIP NETWORK	47	-3216	
R3916	1-211-969-11	METAL CHIP	10		1/16W	RB3415	1-239-409-11	RES, CHIP NETWORK		-3216	
R3917	1-211-969-11	METAL CHIP	10		1/16W	RB3416	1-239-409-11	RES, CHIP NETWORK		-3216	
R3924	1-208-755-11	METAL CHIP	75		1/10W	RB3417	1-239-409-11	RES, CHIP NETWORK		-3216	
R3925	1-208-755-11	METAL CHIP	75		1/10W	RB3418	1-239-409-11	RES, CHIP NETWORK		-3216	
110020	1 200 700 11	WEI/VE OT III	10	0.0070	171000	NB0410	1 200 400 11	NEO, OTHE NETWORK	71	0210	
R3926	1-208-755-11	METAL CHIP	75	0.50%	1/10W	RB3419	1-239-409-11	RES, CHIP NETWORK	47	-3216	
R3933	1-216-864-11	SHORT				RB3420	1-239-409-11	RES, CHIP NETWORK		-3216	
R3937	1-216-809-11	RES-CHIP	100	5%	1/16W	RB3421	1-239-409-11	RES, CHIP NETWORK		-3216	
R3940	1-216-864-11	SHORT				RB3422	1-239-409-11	RES, CHIP NETWORK		-3216	
R3942	1-216-864-11	SHORT				RB3423	1-239-409-11	RES, CHIP NETWORK		-3216	
R3943	1-216-864-11	SHORT				RB3424	1-239-409-11	RES, CHIP NETWORK		-3216	
R3945	1-216-864-11	SHORT				RB3425	1-239-409-11	RES, CHIP NETWORK	47	-3216	
R3946	1-216-864-11	SHORT									
R3953	1-216-057-00	RES-CHIP	2.2K	5%	1/10W		CRYSTAL				
R3954	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	V2004	1 577 000 11	VIDDATOD CEDAMIC			
						X3001	1-577-082-11	VIBRATOR, CERAMIC	ı		
R3955	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	X3047	1-567-505-11	OSCILLATOR, CRYSTA	L		
R3956	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	X3089	1-781-945-21	VIBRATOR, CERAMIC			
R3957	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	X3110	1-567-505-11	OSCILLATOR, CRYSTA	L		
R3958	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	X3401	1-781-887-21	VIBRATOR, CRYSTAL			
R3959	1-208-755-11	METAL CHIP	75	0.50%	1/10W	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	4 707 470 04	\#BB4T6B_6EB4446			
						X3601	1-767-179-31	VIBRATOR, CERAMIC			
R3960	1-208-755-11	METAL CHIP	75		1/10W	X3602	1-767-179-31	VIBRATOR, CERAMIC			
R3961	1-208-755-11	METAL CHIP	75	0.50%	1/10W	X3603	1-767-989-11	VIBRATOR, CERAMIC			
	RESISTOR BRID)GE				 A					
						*					
RB3301	1-234-525-21	RES, CHIP NETWORK				^	A-1299-481-A	A BOARD, COMPLE	IE		
RB3302	1-234-525-21	RES, CHIP NETWORK					4 074 040 44	00//50 04040/500 0	AD TVDE		
RB3303	1-234-525-21	RES, CHIP NETWORK					4-374-846-11	COVER, CAPACITOR, C			
RB3304	1-234-525-21	RES, CHIP NETWORK					4-382-854-01	SCREW (M3X8), P, SW	(+)		
RB3305	1-234-525-21	RES, CHIP NETWORK	56								
DD2206	1 224 525 21	RES, CHIP NETWORK	EG				CAPACITOR				
RB3306	1-234-525-21	RES, CHIP NETWORK				C001	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
RB3307	1-234-525-21					C002	1-104-665-11	ELECT	100µF	20%	10V
RB3401	1-234-524-21	RES, CHIP NETWORK				C003	1-126-960-11	ELECT	1μF	20%	50V
RB3402	1-234-524-21	RES, CHIP NETWORK				C004	1-126-967-11	ELECT	47µF	20%	50V
RB3403	1-234-524-21	RES, CHIP NETWORK	33			C005	1-164-161-11	CERAMIC CHIP	0.0022µF		50V
RB3404	1-234-524-21	RES, CHIP NETWORK	33								
RB3405	1-234-524-21	RES, CHIP NETWORK				C006	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
RB3406	1-234-524-21	RES, CHIP NETWORK				C007	1-126-933-11	ELECT	100µF	20%	16V
RB3407	1-234-524-21	RES, CHIP NETWORK				C008	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
RB3408	1-234-524-21	RES, CHIP NETWORK				C009	1-126-964-11	ELECT	10μF	20%	50V
1/03400	1-40 1- 04 - 41	NEO, OTHER WORK	00			C010	1-126-933-11	ELECT	100µF	20%	16V
RB3409	1-234-524-21	RES, CHIP NETWORK	33						-		
RB3410	1-234-524-21	RES, CHIP NETWORK				C011	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
RB3411	1-234-524-21	RES, CHIP NETWORK				C012	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
RB3412	1-234-524-21	RES, CHIP NETWORK				C013	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
RB3413	1-239-409-11	RES, CHIP NETWORK		-3216		C014	1-126-960-11	ELECT	1μF	20%	50V
1,00110	. 200 100 11			0=10		I					



REF.NO. PART NO. DESCRIPTION VALUES REF.NO. PART NO. DESCRIPTION C023 1-164-161-11 CERAMIC CHIP 0.0022μF 10% 50V C238 1-163-021-91 CERAMIC CHIP	VALUE 0.01μF	S
C023 1-164-161-11 CERAMIC CHIP 0.0022µF 10% 50V C238 1-163-021-91 CERAMIC CHIP	0.01,,,	
	υ.υ τμι	10% 50V
C025 1-164-161-11 CERAMIC CHIP 0.0022µF 10% 50V C239 1-126-964-11 ELECT	10μF	20% 50V
C027 1-164-161-11 CERAMIC CHIP 0.0022µF 10% 50V C240 1-164-004-11 CERAMIC CHIP	0.1µF	10% 25V
C028 1-126-933-11 ELECT 100μF 20% 16V C241 1-164-004-11 CERAMIC CHIP	0.1µF	10% 25V
C030 1-104-665-11 ELECT 100µF 20% 10V C242 1-164-004-11 CERAMIC CHIP	0.1µF	10% 25V
C032 1-126-933-11 ELECT 100μF 20% 16V C243 1-107-823-11 CERAMIC CHIP	0.47µF	10% 16V
C035 1-164-161-11 CERAMIC CHIP 0.0022µF 10% 50V C244 1-163-017-00 CERAMIC CHIP	.0047µF	10% 50V
C037 1-163-021-91 CERAMIC CHIP 0.01µF 10% 50V C245 1-107-823-11 CERAMIC CHIP	0.47µF	10% 16V
C038 1-126-935-11 ELECT 470μF 20% 16V C246 1-164-004-11 CERAMIC CHIP	0.1µF	10% 25V
C039 1-126-964-11 ELECT 10μF 20% 50V C247 1-126-933-11 ELECT	100µF	20% 16V
C041 1-164-161-11 CERAMIC CHIP 0.0022µF 10% 50V C248 1-127-760-11 CERAMIC CHIP	4.7µF	10% 6.3V
C048 1-126-964-11 ELECT 10µF 20% 50V C249 1-126-967-11 ELECT	47μF	20% 50V
C051 1-107-714-11 ELECT 10µF 20% 16V C250 1-107-823-11 CERAMIC CHIP	47μF	10% 16V
C052 1-107-714-11 ELECT 10µF 20% 16V C251 1-115-340-11 CERAMIC CHIP	0.47μ1 0.22μF	10% 10V
C115 1-163-001-11 CERAMIC CHIP 220pF 10% 50V C252 1-126-933-11 ELECT	0.22μι 100μF	20% 16V
0110 1-100-001-11 OE1V-WIIO OTIII 220pi 1070 30V 0232 1-120-300-11 EEEOT	τοομι	2070 10V
C116 1-104-760-11 CERAMIC CHIP 0.047µF 10% 50V C253 1-163-009-91 CERAMIC CHIP	0.001µF	10% 50V
C117 1-164-346-11 CERAMIC CHIP 1µF 16V C254 1-115-339-11 CERAMIC CHIP	0.1µF	10% 50V
C119 1-163-001-11 CERAMIC CHIP 220pF 10% 50V C255 1-163-243-11 CERAMIC CHIP	47pF	5% 50V
C120 1-104-760-11 CERAMIC CHIP 0.047µF 10% 50V C256 1-163-243-11 CERAMIC CHIP	47pF	5% 50V
C121 1-164-346-11 CERAMIC CHIP 1µF 16V C257 1-127-760-11 CERAMIC CHIP	4.7µF	10% 6.3V
0005 4 445 040 44 OFDANIO CIUD 0 000-5 400/ 05V 0050 4 404 040 44 OFDANIO CIUD	4	401/
C205 1-115-340-11 CERAMIC CHIP 0.22µF 10% 25V C258 1-164-346-11 CERAMIC CHIP	1μF	16V
C210 1-127-760-11 CERAMIC CHIP 4.7µF 10% 6.3V C259 1-115-340-11 CERAMIC CHIP	0.22µF	10% 25V
C211 1-164-004-11 CERAMIC CHIP 0.1µF 10% 25V C260 1-163-021-91 CERAMIC CHIP	0.01µF	10% 50V
C212 1-126-933-11 ELECT 100µF 20% 16V C261 1-126-933-11 ELECT	100µF	20% 16V
C213 1-164-161-11 CERAMIC CHIP 0.0022µF 10% 50V C262 1-164-004-11 CERAMIC CHIP	0.1µF	10% 25V
C214 1-164-004-11 CERAMIC CHIP 0.1µF 10% 25V C701 1-164-489-11 CERAMIC CHIP	0.22µF	10% 16V
C216 1-126-933-11 ELECT 100µF 20% 16V C702 1-104-660-91 ELECT	47μF	20% 16V
C217 1-107-823-11 CERAMIC CHIP 0.47µF 10% 16V C703 1-104-660-91 ELECT	47µF	20% 16V
C219 1-164-344-11 CERAMIC CHIP 0.068µF 10% 25V C705 1-164-346-11 CERAMIC CHIP	1μF	16V
C220 1-107-823-11 CERAMIC CHIP 0.47µF 10% 16V C708 1-164-346-11 CERAMIC CHIP	1µF	16V
C221 1-164-004-11 CERAMIC CHIP 0.1µF 10% 25V C710 1-163-251-11 CERAMIC CHIP	100pF	5% 50V
C222 1-164-004-11 CERAMIC CHIP 0.1µF 10% 25V C711 1-163-227-11 CERAMIC CHIP	10pF	0.50pF 50V
C224 1-164-004-11 CERAMIC CHIP 0.1µF 10% 25V C712 1-104-660-91 ELECT	47μF	20% 16V
C225 1-164-004-11 CERAMIC CHIP 0.1µF 10% 25V C713 1-164-690-91 CERAMIC CHIP	0.0022µF	
C226 1-164-004-11 CERAMIC CHIP 0.1µF 10% 25V C715 1-126-964-11 ELECT	10µF	20% 50V
C227 1-164-004-11 CERAMIC CHIP 0.1µF 10% 25V C717 1-163-031-91 CERAMIC CHIP	0.01µF	50V
C229 1-164-004-11 CERAMIC CHIP 0.1µF 10% 25V C718 1-163-235-11 CERAMIC CHIP	22pF	5% 50V
C230 1-107-823-11 CERAMIC CHIP 0.47µF 10% 16V C719 1-163-235-11 CERAMIC CHIP	22pF	5% 50V
C232 1-163-021-91 CERAMIC CHIP 0.01µF 10% 50V C720 1-126-935-11 ELECT	470μF	20% 16V
C233 1-164-492-11 CERAMIC CHIP 0.15µF 10% 16V C721 1-163-231-11 CERAMIC CHIP	15pF	5% 50V
5255 1.101.102.11	iopi	3,0 00V
C234 1-125-838-11 CERAMIC CHIP 2.2µF 10% 6.3V C722 1-163-231-11 CERAMIC CHIP	15pF	5% 50V
C235 1-164-004-11 CERAMIC CHIP 0.1µF 10% 25V C724 1-126-961-11 ELECT	2.2µF	20% 50V
C236 1-126-964-11 ELECT 10μF 20% 50V C731 1-163-009-91 CERAMIC CHIP	0.001µF	10% 50V
C237 1-126-933-11 ELECT 100μF 20% 16V C732 1-163-251-11 CERAMIC CHIP	100pF	5% 50V



REF.NO	PART NO.	DESCRIPTION	VALUE	S			REF.NO.	PART NO.	DESCRIPTION	VALUE	s	
C733	1-163-031-91	CERAMIC CHIP	0.01µF		50V		C7013	1-164-182-11	CERAMIC CHIP	0.0033µF	10%	50V
C735	1-163-275-11	CERAMIC CHIP	0.001µF	5%	50V		C7014	1-163-989-11	CERAMIC CHIP	0.033µF	10%	25V
C747	1-126-767-11	ELECT	1000µF	20%	16V		C7015	1-163-989-11	CERAMIC CHIP	0.033µF	10%	25V
C748	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V		C7016	1-126-959-11	ELECT	0.47µF	20%	50V
<u> </u>	1-136-346-21	MYLAR	0.22µF	20%	125V		C7017	1-126-963-11	ELECT	4.7µF	20%	50V
C6003	1-117-227-11	MYLAR	1µF	10%	450V		C7018	1-136-169-00	FILM	0.22µF	5%	50V
	1-117-227-11	ELECT		20%	50V				CERAMIC CHIP	υ.22μΓ .0047μF	10%	
C6004		ELECT	2.2µF	20%	50 V 50 V		C7019	1-163-017-00	CERAMIC CHIP		10%	50V
C6005	1-126-961-11		2.2µF				C7020	1-163-989-11		0.033µF		25V
C6006	1-126-967-11	ELECT CERAMIC CHIR	47µF	20%	50V		C7021	1-164-182-11	CERAMIC CHIP	0.0033µF		50V
C6007	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V		C7022	1-163-989-11	CERAMIC CHIP	0.033µF	10%	25V
C6008	1-126-968-11	ELECT	100μF	20%	50V		C7023	1-126-935-11	ELECT	470µF	20%	16V
C6009	1-104-664-11	ELECT	47µF	20%	25V		C7024	1-126-935-11	ELECT	470µF	20%	16V
C6011	1-126-968-11	ELECT	100µF	20%	50V		C7025	1-126-960-11	ELECT	1µF	20%	50V
C6013	1-119-887-51	CERAMIC	1000pF	20%	250V		C7026	1-126-960-11	ELECT	1µF	20%	50V
C6014	1-135-945-21	FILM	10000pF	3%	800V		C7028	1-136-165-00	FILM	0.1µF	5%	50V
C6015	1-137-399-11	MYLAR	0.1µF	5%	100V		C7029	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V
C6017	1-125-969-91	CERAMIC	680pF	10%	1KV		C7030	1-126-953-11	ELECT	2200µF	20%	35V
C6018	1-126-929-11	ELECT	4700µF	20%	10V		C7032	1-163-038-91	CERAMIC CHIP	0.1µF	2070	25V
C6019	1-128-546-11	ELECT	4700μi 10000μF	20%	10V		C7033	1-126-934-11	ELECT	220μF	20%	16V
C6020	1-126-936-11	ELECT	3300µF	20%	16V		C7034	1-136-165-00	FILM	220μ1 0.1μF	5%	50V
C0020	1-120-930-11	ELECT	3300μΓ	20 /0	10 V		C/034	1-130-103-00	FILIVI	υ. τμι	J /0	30 V
C6021	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V		C7035	1-136-165-00	FILM	0.1µF	5%	50V
C6026	1-126-933-11	ELECT	100µF	20%	16V		C7036	1-126-942-61	ELECT	1000µF	20%	25V
C6027	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V		C7037	1-136-160-00	FILM	0.039µF	5%	50V
⚠ C6029	1-136-311-11	MYLAR	0.47µF	20%	125V		C7038	1-126-942-61	ELECT	1000µF	20%	25V
C6030	1-126-935-11	ELECT	470µF	20%	16V		C7039	1-136-160-00	FILM	0.039µF	5%	50V
C6033	1-126-941-11	ELECT	470µF	20%	25V		C7056	1-126-953-11	ELECT	2200µF	20%	35V
C6045	1-126-926-11	ELECT	1000µF	20%	10V		C7057	1-126-953-11	ELECT	2200µF	20%	35V
C6048	1-126-767-11	ELECT	1000µF	20%	16V		C7058	1-126-960-11	ELECT	1µF	20%	50V
C6057	1-126-916-11	ELECT	1000µF	20%	6.3V		C7059	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C6059	1-126-971-11	ELECT	470µF	20%	50V		C7061	1-126-964-11	ELECT	10µF	20%	50V
Cenen	1 125 572 01	ELECT	1500uE	200/	25V		C7062	1-163-009-91	CERAMIC CHIP	0.001E	10%	50V
C6060 C6061	1-135-573-91 1-126-960-11	ELECT	1500µF	20% 20%	50V		C7062	1-105-009-91	FILM	0.001µF	5%	50V
	1-120-960-11		1µF				C7063			0.1µF		
C6062		ELECT	47µF	20%	25V 50V		C7064	1-126-953-11	ELECT	2200µF	20%	35V
C6063	1-136-479-11	FILM	0.001µF	2%			C7066	1-136-165-00	FILM	0.1µF	5% 5%	50V
C6064	1-126-964-11	ELECT	10μF	20%	50V		C7067	1-136-165-00	FILM	0.1µF	5%	50V
C6065	1-126-933-11	ELECT	100μF	20%	16V		C7069	1-136-165-00	FILM	0.1µF	5%	50V
C7001	1-126-961-11	ELECT	2.2µF	20%	50V		C7070	1-136-165-00	FILM	0.1µF	5%	50V
C7006	1-126-767-11	ELECT	1000µF	20%	16V		C7071	1-137-437-11	MYLAR	0.0056µF	5%	50V
C7007	1-136-169-00	FILM	0.22µF	5%	50V		C7072	1-137-437-11	MYLAR	0.0056µF	5%	50V
C7008	1-126-767-11	ELECT	1000µF	20%	16V		C7074	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C7009	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V		C7075	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C7010	1-126-963-11	ELECT	4.7μF	20%	50V		C7076	1-126-968-11	ELECT	100μF	20%	50V
C7011	1-126-959-11	ELECT	4.7μF	20%	50V		C7077	1-126-960-11	ELECT	1μF	20%	50V
C7011	1-163-017-00	CERAMIC CHIP	.0047μF	10%	50V		C7078	1-126-960-11	ELECT	1μF	20%	50V
0/012	1-100-011-00	OLIVAWIO OTIII	.00 4 7 µ1	10/0	JU V	ı	01010	1-120-300-11	LLLUI	ıμı	20 /0	JU V



	REF.NO.	PART NO.	DESCRIPTION	VALUE	s		REF.NO.	PART NO.	DESCRIPTION	VALUES
	C7084	1-163-017-00	CERAMIC CHIP	.0047µF	10%	50V		DIODE		
	C7088	1-163-251-11	CERAMIC CHIP	100pF	5%	50V	D004	8-719-977-28	DIODE UDZSTE-1710B	
	C7089	1-163-251-11	CERAMIC CHIP	100pF	5%	50V				
	C7090	1-104-664-11	ELECT	47µF	20%	25V	D008	8-719-977-28	DIODE UDZSTE-1710B	
	C7094	1-126-960-11	ELECT	1µF	20%	50V	D203	8-719-025-31	DIODE 02CZ5.6-TE85L	
							D211	8-719-991-33	DIODE 1SS133T-77	
	C7095	1-126-960-11	ELECT	1µF	20%	50V	D212	8-719-404-50	DIODE MA111-TX	
	C7096	1-126-960-11	ELECT	1µF	20%	50V	D044	0.740.404.50	DIODE MAAAA TV	
	C7099	1-126-964-11	ELECT	10μF	20%	50V	D214	8-719-404-50	DIODE MA111-TX	
	C7101	1-126-935-11	ELECT	470µF	20%	16V	D215	8-719-404-50	DIODE MA111-TX	
	C7102	1-126-934-11	ELECT	220µF	20%	16V	D701	8-719-914-43	DIODE DAN202K-T-146	
							D703	8-719-914-43	DIODE DAN202K-T-146	
	C7103	1-163-038-91	CERAMIC CHIP	0.1µF		25V	D705	8-719-404-50	DIODE MA111-TX	
	C7105	1-126-935-11	ELECT	470µF	20%	16V				
	C7108	1-126-961-11	ELECT	2.2µF	20%	50V	D706	8-719-914-43	DIODE DAN202K-T-146	
	C7109	1-126-961-11	ELECT	2.2µF	20%	50V	D707	8-719-914-43	DIODE DAN202K-T-146	
	C7110	1-126-941-11	ELECT	470μF	20%	25V	D708	8-719-404-50	DIODE MA111-TX	
							D709	8-719-991-33	DIODE 1SS133T-77	
	C7151	1-126-967-11	ELECT	47µF	20%	50V	D710	8-719-914-43	DIODE DAN202K-T-146	
	C7152	1-126-967-11	ELECT	47µF	20%	50V				
							D711	8-719-914-44	DIODE DAP202K-T-146	
		CONNECTOR					D715	8-719-914-43	DIODE DAN202K-T-146	
		CONNECTOR					D716	8-719-914-44	DIODE DAP202K-T-146	
*	CN001	1-573-296-21	CONNECTOR, BOAR	D TO BOARI)	10P	D719	8-719-404-50	DIODE MA111-TX	
*	CN003	1-785-304-11	CONNECTOR, DIN (R	ECEPTACLE	Ξ)	64	D720	8-719-404-50	DIODE MA111-TX	
*	CN201	1-779-892-11	CONNECTOR, BOAR		,	10P				
*	CN202	1-764-333-11	PLUG, CONNECTOR			10P	D721	8-719-404-50	DIODE MA111-TX	
*	CN203	1-779-892-11	CONNECTOR, BOAR	D TO BOARI)	10P	D722	8-719-404-50	DIODE MA111-TX	
							D723	8-719-914-43	DIODE DAN202K-T-146	
*	CN204	1-564-506-11	PLUG, CONNECTOR			3P	D724	8-719-404-50	DIODE MA111-TX	
*	CN701	1-564-515-11	PLUG, CONNECTOR			12P	D725	8-719-404-50	DIODE MA111-TX	
*	CN702	1-779-891-11	CONNECTOR, BOAR	D TO BOARI)	8P				
*	CN703	1-779-891-11	CONNECTOR, BOAR			8P	D726	8-719-404-50	DIODE MA111-TX	
*	CN706	1-779-891-11	CONNECTOR, BOAR			8P	D727	8-719-404-50	DIODE MA111-TX	
			,				D728	8-719-404-50	DIODE MA111-TX	
*	CN707	1-564-507-11	PLUG, CONNECTOR			4P	D6001	8-719-991-33	DIODE 1SS133T-77	
*	CN6001	1-766-241-11	PIN,CONNECTOR (PC	C BOARD)		3P	D6002	8-719-991-33	DIODE 1SS133T-77	
*	CN6002	1-766-241-11	PIN,CONNECTOR (PC	,		3P				
*	CN6003	1-508-786-00	PIN,CONNECTOR (5M	,		2P	D6003	8-719-979-64	DIODE µF4005PKG23	
*	CN6005	1-766-176-11	PIN,CONNECTOR (PC	,		6P	D6005	8-719-063-73	DIODE D1NL20U-TR	
	0.1000		,			•	D6009	8-719-063-73	DIODE D1NL20U-TR	
*	CN6006	1-779-891-11	CONNECTOR, BOAR	D TO BOARI)	8P	D6011	8-719-031-79	DIODE D5SC4M	
	CN6007	1-580-843-11	PIN, CONNECTOR (PC		-	v .	D6012	8-719-031-79	DIODE D5SC4M	
*	CN6013	1-766-240-11	PIN,CONNECTOR (PC	,		2P	1			
*	CN7001	1-573-296-21	CONNECTOR, BOAR	,)	10P	D6013	8-719-031-79	DIODE D5SC4M	
*	CN7003	1-564-511-11	PLUG, CONNECTOR	0 50/11/1	-	8P	D6014	8-719-921-63	DIODE MTZJ-T-77-7.5B	
*	CN7008	1-564-511-61	PLUG,CONNECTOR			8P	D6017	8-719-921-37	DIODE MTZJ-T-77-4.7	
	0111 000	1 007 011-01	i 200,0011112010IX			OI.	D6018	8-719-991-33	DIODE 1SS133T-77	
							D6020	8-719-511-40	DIODE S1VB20	
									- ·	
							D6025	8-719-404-50	DIODE MA111-TX	
							D7002	8-719-991-33	DIODE 1SS133T-77	
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_	REF.NO.	PART NO.	DESCRIPTION	VALUES	REF.NO.	PART NO.	DESCRIPTION	VALUES
	D7003	8-719-914-43	DIODE DAN202K-T-146		IC7006	8-759-331-71	IC NJM4558E(TE2)	
	D7004	8-719-914-44	DIODE DAP202K-T-146		IC7007	8-759-331-71	IC NJM4558E(TE2)	
	D7005	8-719-071-74	DIODE HZU11B1TRF				(/	
	D7009	8-719-404-50	DIODE MA111-TX			COIL		
	D7010	8-719-404-50	DIODE MA111-TX			COIL		
					L001	1-469-320-21	INDUCTOR	100μH
	D7011	8-719-404-50	DIODE MA111-TX		L002	1-469-320-21	INDUCTOR	100μH
	D7012	8-719-404-50	DIODE MA111-TX		L003	1-469-317-21	INDUCTOR	10μH
	D7013	8-719-041-97	DIODE MA113-(TX)		L004	1-469-320-21	INDUCTOR	100μH
	D7014	8-719-924-13	DIODE MTZJ-T-77-22B		L005	1-469-320-21	INDUCTOR	100μH
	D7015	8-719-924-13	DIODE MTZJ-T-77-22B					
					L006	1-469-317-21	INDUCTOR	10μH
	D7016	8-719-041-97	DIODE MA113-(TX)		L201	1-469-317-21	INDUCTOR	10μH
	D7017	8-719-041-97	DIODE MA113-(TX)		L202	1-469-317-21	INDUCTOR	10μH
	D7103	8-719-404-50	DIODE MA111-TX		L203	1-469-317-21	INDUCTOR	10μH
					L701	1-412-911-11	FERRITE	0μΗ
		<u>FUSE</u>			L702	1-412-911-11	FERRITE	OμH
<u>^</u>	F6001	1-532-506-51	FUSE	6.3A/250V	L702	1-414-179-21	INDUCTOR	2.2µH
	1 0001	1 002 000 01	. 502	0.0/ 0200 7	L6001	1-406-665-11	INDUCTOR	100µH
		CEDDITE DEAD			L6002	1-406-659-11	INDUCTOR	10µH
		FERRITE BEAD			L6002	1-406-659-11	INDUCTOR	10μH
	FB6001	1-412-911-11	FERRITE	0μΗ		1 100 000 11	INDOOTOR	ΙΟμΙΙ
	FB6003	1-412-911-11	FERRITE	0μΗ	L6004	1-412-525-31	INDUCTOR	10μH
	FB6004	1-412-911-11	FERRITE	0μΗ	L6006	1-412-519-11	INDUCTOR	3.3µH
	FB6005	1-412-911-11	FERRITE	0μΗ	L6007	1-412-519-11	INDUCTOR	3.3µH
	FB6007	1-412-911-11	FERRITE	0μΗ	L6008	1-469-317-21	INDUCTOR	10µH
					L7002	1-414-187-11	INDUCTOR	47µH
<u>^</u>	FB6012	1-412-911-11	FERRITE	0μΗ				r
<u> </u>	FB6013	1-412-911-11	FERRITE	0μΗ		PHOTO COUPLE	<u>:R</u>	
		FUSE HOLDER			PH6001	8-749-924-35	PHOTO COUPLER	ON3171-R
	E110004	4 500 000 44	HOLDED FLICE					
	FH6001	1-533-223-11	HOLDER, FUSE			TRANSISTOR		
	FH6002	1-533-223-11	HOLDER, FUSE		0004	0 700 400 07	TDANICIOTOD OCDOOA	A ODC TV
					Q001	8-729-422-27	TRANSISTOR 2SD601	
		<u>IC</u>			Q002	8-729-422-27	TRANSISTOR 2SD601 TRANSISTOR 2SB709	
	IC201	8-752-100-25	IC CXA2150AQ		Q004	8-729-424-02	TRANSISTOR 2SB709	
	IC701	6-800-051-01	IC M306V2ME-153FP		Q005	8-729-422-27 8-729-422-27	TRANSISTOR 2SD601	
	IC702	8-759-349-11	IC PST9145NL		Q012	8-729-422-27	TRANSISTUR 25000T	A-UKS-TX
	IC707	8-759-672-78	IC M24C08-BN6(A)		Q015	8-729-422-27	TRANSISTOR 2SD601	A ODS TV
<u>/</u> !\	IC6001	8-759-670-30	IC MCZ3001D		Q013 Q027	8-729-424-02	TRANSISTOR 2SB709	
					Q203	8-729-122-63	TRANSISTOR 2SA122	
	IC6002	8-759-140-85	IC UPC1093J-T		Q203 Q204	8-729-122-63	TRANSISTOR 2SA122	
	IC6003	8-759-520-49	IC PQ30RV21		Q204 Q207	8-729-122-63	TRANSISTOR 2SA122	
	IC6007	8-759-513-71	IC PQ05RF21		Q201	0-120-122 - 00	TAMOIOTON ZOATZZ	.V I ILT
	IC6010	8-759-653-07	IC PQ09RD21		Q208	8-729-122-63	TRANSISTOR 2SA122	96-T1F4
	IC6011	8-759-450-47	IC BA05T		Q200 Q209	8-729-422-27	TRANSISTOR 2SD601	
					Q203 Q211	8-729-422-27	TRANSISTOR 2SD601	
	IC7001	8-759-678-92	IC BH3868AFS-E2		Q212	8-729-422-27	TRANSISTOR 2SD601	
<u>^</u>	IC7002	8-759-246-70	IC TA8216H		Q214	1-801-806-11	TRANSISTOR DTC144	
<u> </u>	IC7005	8-759-246-70	IC TA8216H					• • • •



REF.NO.	PART NO.	DESCRIPTION	VALUE	S		REF.NO.	PART NO.	DESCRIPTION	VALU	JES	
Q216	8-729-424-02	TRANSISTOR 2SB7	09A-QRS-TX			R009	1-216-017-91	RES-CHIP	47	5%	1/10W
Q217	8-729-422-27	TRANSISTOR 2SD6	01A-QRS-TX			R010	1-216-073-91	RES-CHIP	10K	5%	1/10W
Q701	8-729-424-02	TRANSISTOR 2SB7	09A-QRS-TX			R011	1-216-113-00	RES-CHIP	470K	5%	1/10W
Q702	8-729-422-27	TRANSISTOR 2SD6	01A-QRS-TX			R012	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
Q703	1-801-806-11	TRANSISTOR DTC1	144EKA-T146			R013	1-216-081-00	RES-CHIP	22K	5%	1/10W
Q704	1-801-806-11	TRANSISTOR DTC1	144EKA-T146			R014	1-216-085-91	RES-CHIP	33K	5%	1/10W
Q705	8-729-424-02	TRANSISTOR 2SB7	09A-QRS-TX			R015	1-208-776-11	METAL CHIP	560		1/10W
Q706	8-729-424-02	TRANSISTOR 2SB7				R016	1-216-025-11	RES-CHIP	100	5%	1/10W
Q707	8-729-422-27	TRANSISTOR 2SD6				R017	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
Q709	8-729-424-02	TRANSISTOR 2SB7				R037	1-216-295-91	SHORT			
Q710	8-729-027-23	TRANSISTOR DTA1	14EKA-T146			R039	1-216-025-11	RES-CHIP	100	5%	1/10W
Q712	8-729-422-27	TRANSISTOR 2SD6				R042	1-216-025-11	RES-CHIP	100	5%	1/10W
Q717	1-801-806-11	TRANSISTOR DTC1				R049	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
Q721	8-729-422-27	TRANSISTOR 2SD6				R052	1-216-085-91	RES-CHIP	33K	5%	1/10W
Q723	8-729-422-27	TRANSISTOR 2SD6				R055	1-216-081-00	RES-CHIP	22K	5%	1/10W
Q724	8-729-422-27	TRANSISTOR 2SD6	01A-ORS-TX			R061	1-208-776-11	METAL CHIP	560	0.50%	1/10W/
Q726	8-729-901-47	TRANSISTOR DTA1				R065	1-216-025-11	RES-CHIP	100	5%	1/10W
Q727	8-729-901-47	TRANSISTOR DTA1				R082	1-216-073-91	RES-CHIP	10K	5%	1/10W
Q728	8-729-422-27	TRANSISTOR 2SD6				R083	1-216-073-91	RES-CHIP	10K	5%	1/10W
Q729	8-729-422-27	TRANSISTOR 2SD6				R160	1-216-113-00	RES-CHIP	470K	5%	1/10W
0700	0.700.404.00	TRANSISTER CORT	2004 ODO TV			D.100	4 040 040 44	METAL OLUB	100	0.500/	4/4014
Q730	8-729-424-02	TRANSISTOR 2SB7				R163	1-216-642-11	METAL CHIP	430	0.50%	
Q731	8-729-424-02	TRANSISTOR 2SB7				R164	1-216-041-00	RES-CHIP	470	5%	1/10W
Q6001	8-729-422-27	TRANSISTOR 2SD6				R165	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
Q6002	8-729-027-23	TRANSISTOR DTA1				R166	1-216-097-11	RES-CHIP	100K	5%	1/10W
Q6007	8-729-052-29	TRANSISTOR 2SK2	876-01MR-F1	22		R167	1-216-121-11	RES-CHIP	1M	5%	1/10W
Q6008	8-729-052-29	TRANSISTOR 2SK2	876-01MR-F1	22		R168	1-216-073-91	RES-CHIP	10K	5%	1/10W
Q6009	8-729-424-02	TRANSISTOR 2SB7	09A-QRS-TX			R169	1-216-073-91	RES-CHIP	10K	5%	1/10W
Q6010	8-729-422-27	TRANSISTOR 2SD6				R170	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
Q7001	8-729-422-27	TRANSISTOR 2SD6	01A-QRS-TX			R171	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
Q7004	8-729-900-53	TRANSISTOR DTC1	114EKA-T146			R172	1-216-097-11	RES-CHIP	100K	5%	1/10W
Q7005	8-729-900-53	TRANSISTOR DTC1	114FKA-T146			R173	1-216-121-11	RES-CHIP	1M	5%	1/10W
Q7009	8-729-900-53	TRANSISTOR DTC1				R174	1-216-073-91	RES-CHIP	10K	5%	1/10W
Q7010	8-729-900-53	TRANSISTOR DTC1				R175	1-216-073-91	RES-CHIP	10K	5%	1/10W
Q7013	8-729-900-53	TRANSISTOR DTC1				R176	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
Q7014	8-729-900-53	TRANSISTOR DTC1				R204	1-216-073-91	RES-CHIP	10K	5%	1/10W
07015	0 700 000 50	TDANGICTOD DTC	144EVA T446			DOOF	1 016 005 11	DEC CUID	100	5%	1/10W
Q7015	8-729-900-53	TRANSISTOR DTC1				R205	1-216-025-11	RES-CHIP	100		
Q7016	8-729-900-53	TRANSISTOR DTC1	114ENA-1140			R206	1-208-752-11	METAL CHIP	56		1/10W
						R207	1-249-413-11	CARBON	470	5%	1/4W
	RESISTOR					R208 R210	1-216-295-91 1-216-025-11	SHORT RES-CHIP	100	5%	1/10W
R004	1-216-049-11	RES-CHIP	1K	5%	1/10W		5 0=0 11	5 01111	100	370	
R005	1-216-049-11	RES-CHIP	1K	5%	1/10W	R211	1-208-752-11	METAL CHIP	56	0.50%	1/10W
R006	1-216-295-91	SHORT				R215	1-249-413-11	CARBON	470	5%	1/4W
R007	1-216-017-91	RES-CHIP	47	5%	1/10W	R219	1-216-025-11	RES-CHIP	100	5%	1/10W
R008	1-216-073-91	RES-CHIP	10K	5%	1/10W	R220	1-208-752-11	METAL CHIP	56	0.50%	1/10W



REF.NO.	PART NO.	DESCRIPTION	VALU	ES		REF.NO.	PART NO.	DESCRIPTION	VAL	UES	
R221	1-249-413-11	CARBON	470	5%	1/4W	R275	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R223	1-216-025-11	RES-CHIP	100	5%	1/10W	R276	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R224	1-216-025-11	RES-CHIP	100	5%	1/10W	R277	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R226	1-216-073-91	RES-CHIP	10K	5%	1/10W	R278	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R228	1-216-025-11	RES-CHIP	100	5%	1/10W	R280	1-216-295-91	SHORT		070	
TELO	1 210 020 11	NEO OTIII	100	070	1710	11200	1 210 200 01	OHORH			
R229	1-216-025-11	RES-CHIP	100	5%	1/10W	R281	1-216-295-91	SHORT			
R230	1-216-025-11	RES-CHIP	100	5%	1/10W	R282	1-216-295-91	SHORT			
R231	1-216-025-11	RES-CHIP	100	5%	1/10W	R283	1-216-295-91	SHORT			
R232	1-216-025-11	RES-CHIP	100	5%	1/10W	R284	1-216-295-91	SHORT			
R233	1-216-025-11	RES-CHIP	100	5%	1/10W	R701	1-216-089-91	RES-CHIP	47K	5%	1/10W
R234	1-216-025-11	RES-CHIP	100	5%	1/10W	R702	1-216-097-11	RES-CHIP	100K	5%	1/10W
						1					
R235	1-216-025-11	RES-CHIP	100	5%	1/10W	R703	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R236	1-216-025-11	RES-CHIP	100	5%	1/10W	R704	1-216-073-91	RES-CHIP	10K	5%	1/10W
R237	1-216-025-11	RES-CHIP	100	5%	1/10W	R705	1-216-101-00	RES-CHIP	150K	5%	1/10W
R238	1-216-025-11	RES-CHIP	100	5%	1/10W	R706	1-216-073-91	RES-CHIP	10K	5%	1/10W
R239	1-216-059-00	RES-CHIP	2.7K	5%	1/10W	R707	1-216-097-11	RES-CHIP	100K	5%	1/10W
R240	1-216-061-91	RES-CHIP	3.3K	5%	1/10W	R708	1-216-025-11	RES-CHIP	100	5%	1/10W
R241	1-216-133-91	RES-CHIP	3.3M	5%	1/10W	R709	1-216-097-11	RES-CHIP	100K	5%	1/10W
R242	1-216-075-00	RES-CHIP	12K	5%	1/10W	R710	1-216-073-91	RES-CHIP	10K	5%	1/10W
R243	1-216-073-91	RES-CHIP	10K	5%	1/10W	R711	1-216-073-91	RES-CHIP	10K	5%	1/10W
11210	1 210 010 01	NEO OTIII	TOIL	070	171011	I WIII	1 210 070 01	NEO OTIII	1011	070	171011
R244	1-216-025-11	RES-CHIP	100	5%	1/10W	R712	1-216-049-11	RES-CHIP	1K	5%	1/10W
R245	1-216-073-91	RES-CHIP	10K	5%	1/10W	R713	1-216-025-11	RES-CHIP	100	5%	1/10W
R246	1-216-073-91	RES-CHIP	10K	5%	1/10W	R714	1-216-025-11	RES-CHIP	100	5%	1/10W
R247	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R719	1-216-049-11	RES-CHIP	1K	5%	1/10W
R248	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R721	1-216-049-11	RES-CHIP	1K	5%	1/10W
R249	1-216-025-11	RES-CHIP	100	5%	1/10W	R727	1-216-049-11	RES-CHIP	1K	5%	1/10W
R250	1-216-097-11	RES-CHIP	100K	5%	1/10W	R729	1-216-049-11	RES-CHIP	1K	5%	1/10W
R251	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R731	1-216-073-91	RES-CHIP	10K	5%	1/10W
R252	1-216-005-91	RES-CHIP	100	5%	1/10W	R740	1-216-073-91	RES-CHIP	10K	5%	1/10W
R253	1-216-023-11	RES-CHIP	560	5%	1/10W	R740	1-216-073-91	RES-CHIP	10K	5%	1/10W
R200	1-210-043-91	RES-UNIF	300	370	1/1000	K/41	1-210-073-91	RES-CHIP	IUK	370	1/1000
R255	1-216-025-11	RES-CHIP	100	5%	1/10W	R742	1-216-041-00	RES-CHIP	470	5%	1/10W
R256	1-216-041-00	RES-CHIP	470	5%	1/10W	R743	1-216-025-11	RES-CHIP	100	5%	1/10W
R257	1-216-017-91	RES-CHIP	47	5%	1/10W	R744	1-216-049-11	RES-CHIP	1K	5%	1/10W
R258	1-216-017-91	RES-CHIP	47	5%	1/10W	R748	1-216-081-00	RES-CHIP	22K	5%	1/10W
R259	1-216-017-91	RES-CHIP	47	5%	1/10W	R749	1-216-049-11	RES-CHIP	1K	5%	1/10W
Door	4 040 007 00	DEC OUR	000	F0/	4 (4 0) 4 (D754	4 040 005 44	DEC OUR	400	F0/	4/40\44
R260	1-216-037-00	RES-CHIP	330	5%	1/10W	R754	1-216-025-11	RES-CHIP	100	5%	1/10W
R261	1-208-806-11	METAL CHIP	10K	0.50%		R755	1-216-025-11	RES-CHIP	100	5%	1/10W
R262	1-216-025-11	RES-CHIP	100	5%	1/10W	R756	1-216-025-11	RES-CHIP	100	5%	1/10W
R263	1-216-071-00	RES-CHIP	8.2K	5%	1/10W	R757	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R264	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R758	1-216-025-11	RES-CHIP	100	5%	1/10W
R265	1-216-073-91	RES-CHIP	10K	5%	1/10W	R762	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R266	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R763	1-216-295-91	SHORT			
R267	1-216-073-91	RES-CHIP	10K	5%	1/10W	R764	1-216-049-11	RES-CHIP	1K	5%	1/10W
R274	1-216-025-11	RES-CHIP	100	5%	1/10W	R767	1-216-049-11	RES-CHIP	1K	5%	1/10W
11417	1 2 10 020-11	ALO OHII	100	0 /0	// TOVV	I	1 410 070-11	ALO OTIII	111	J /0	17 10 11



REF.NO.	PART NO.	DESCRIPTION	VALU	JES		RE	F.NO.	PART NO.	DESCRIPTION	VALUE	S	
R769	1-216-049-11	RES-CHIP	1K	5%	1/10W	R8	28	1-216-073-91	RES-CHIP	10K	5%	1/10W
R771	1-216-049-11	RES-CHIP	1K	5%	1/10W	R8	29	1-216-073-91	RES-CHIP	10K	5%	1/10W
R772	1-216-081-00	RES-CHIP	22K	5%	1/10W	R8	30	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R773	1-216-081-00	RES-CHIP	22K	5%	1/10W	R8		1-216-041-00	RES-CHIP	470	5%	1/10W
R774	1-216-081-00	RES-CHIP	22K	5%	1/10W	R8	36	1-216-049-11	RES-CHIP	1K	5%	1/10W
R776	1-216-049-11	RES-CHIP	1K	5%	1/10W	R8	37	1-216-025-11	RES-CHIP	100	5%	1/10W
R777	1-216-073-91	RES-CHIP	10K	5%	1/10W	R8		1-216-049-11	RES-CHIP	1K	5%	1/10W
R780	1-216-073-91	RES-CHIP	10K	5%	1/10W	R8		1-216-025-11	RES-CHIP	100	5%	1/10W
R781	1-216-025-11	RES-CHIP	100	5%	1/10W	R8		1-216-033-00	RES-CHIP	220	5%	1/10W
R784	1-216-025-11	RES-CHIP	100	5%	1/10W	R8		1-216-081-00	RES-CHIP	22K	5%	1/10W
R785	1-216-049-11	RES-CHIP	1K	5%	1/10W	R8	43	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R787	1-216-121-11	RES-CHIP	1M	5%	1/10W	R8		1-216-025-11	RES-CHIP	100	5%	1/10W
R788	1-216-295-91	SHORT				R8		1-216-025-11	RES-CHIP	100	5%	1/10W
R789	1-216-041-00	RES-CHIP	470	5%	1/10W	R8		1-216-295-91	SHORT			
R791	1-216-025-11	RES-CHIP	100	5%	1/10W	R8		1-216-295-91	SHORT			
R792	1-216-053-00	RES-CHIP	1.5K	5%	1/10W	R8	51	1-216-295-91	SHORT			
R793	1-216-053-00	RES-CHIP	1.5K	5%	1/10W	R8		1-216-049-11	RES-CHIP	1K	5%	1/10W
R794	1-216-017-91	RES-CHIP	47	5%	1/10W	R8		1-216-295-91	SHORT		070	
R795	1-216-025-11	RES-CHIP	100	5%	1/10W	R8		1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R796	1-216-295-91	SHORT		0,70		R8		1-216-049-11	RES-CHIP	1K	5%	1/10W
R797	1-216-017-91	RES-CHIP	47	5%	1/10W	R8	57	1-216-025-11	RES-CHIP	100	5%	1/10W
R798	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R8		1-216-295-91	SHORT	100	370	1/1044
R799	1-216-049-11	RES-CHIP	1K	5%	1/10W	R8		1-216-295-91	SHORT			
R800	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R8		1-216-689-11	RES-CHIP	39K	5%	1/10W
R801	1-216-025-11	RES-CHIP	100	5%	1/10W	R8		1-216-689-11	RES-CHIP	39K	5%	1/10W
R802	1 216 057 00	RES-CHIP	2.2K	5%	1/10\\\	D0	60	1 216 065 01	DEC CHID	4.71/	E0/	1/10\\
R803	1-216-057-00		2.2N 47	5% 5%	1/10W 1/10W	R8		1-216-065-91	RES-CHIP	4.7K	5%	1/10W
	1-216-017-91 1-216-037-00	RES-CHIP		5% 5%	1/10W	R8		1-216-049-11	RES-CHIP	1K	5%	1/10W
R804 R805		RES-CHIP RES-CHIP	330 330	5% 5%	1/10W	R8		1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R806	1-216-037-00 1-216-037-00	RES-CHIP	330	5%	1/10W	R8 R8		1-216-295-91 1-216-295-91	SHORT SHORT			
D007	1 216 017 01	DEC CUID	47	E0/	1/10\\	D.	67	1 010 001 00	DEC CUID	001/	F0/	4/40\4/
R807	1-216-017-91	RES-CHIP	47	5%	1/10W	R8		1-216-081-00	RES-CHIP	22K	5%	1/10W
R808	1-216-049-11	RES-CHIP	1K	5%	1/10W		001	1-216-073-91	RES-CHIP	10K	5%	1/10W
R812	1-216-049-11	RES-CHIP	1K	5%	1/10W		002	1-249-393-11	CARBON	10	5%	1/4W
R813	1-216-049-11	RES-CHIP	1K	5%	1/10W		003	1-219-776-11	CARBON	2.2M	10%	1/2W
R814	1-216-025-11	RES-CHIP	100	5%	1/10W	R6	004	1-216-121-11	RES-CHIP	1M	5%	1/10W
R815	1-216-025-11	RES-CHIP	100	5%	1/10W		006	1-220-926-11	FUSIBLE	0.47	10%	1/2W
R816	1-216-025-11	RES-CHIP	100	5%	1/10W	1	007	1-215-481-00	METAL	330K	1%	1/4W
R817	1-216-025-11	RES-CHIP	100	5%	1/10W	1	800	1-215-481-00	METAL	330K	1%	1/4W
R818	1-216-025-11	RES-CHIP	100	5%	1/10W	1	009	1-215-481-00	METAL	330K	1%	1/4W
R819	1-216-037-00	RES-CHIP	330	5%	1/10W	R6	010	1-249-393-11	CARBON	10	5%	1/4W
R822	1-216-037-00	RES-CHIP	330	5%	1/10W	1	011	1-208-806-11	METAL CHIP	10K		1/10W
R824	1-216-061-91	RES-CHIP	3.3K	5%	1/10W	1	012	1-216-049-11	RES-CHIP	1K	5%	1/10W
R825	1-216-025-11	RES-CHIP	100	5%	1/10W	1	015	1-216-049-11	RES-CHIP	1K	5%	1/10W
R827	1-216-061-91	RES-CHIP	3.3K	5%	1/10W	R6	019	1-216-073-91	RES-CHIP	10K	5%	1/10W



_	REF.NO.	PART NO.	DESCRIPTION	VALU	IES			REF.NO.	PART NO.	DESCRIPTION	VALU	ES	
	R6020	1-216-065-91	RES-CHIP	4.7K	5%	1/10W		R7016	1-216-073-91	RES-CHIP	10K	5%	1/10W
	R6021	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W		R7017	1-216-073-91	RES-CHIP	10K	5%	1/10W
	R6022	1-208-803-11	METAL CHIP	7.5K	0.50%	1/10W		R7018	1-216-073-91	RES-CHIP	10K	5%	1/10W
	R6025	1-249-417-11	CARBON	1K	5%	1/4W		R7019	1-216-073-91	RES-CHIP	10K	5%	1/10W
	R6029	1-216-105-91	RES-CHIP	220K	5%	1/10W		R7021	1-216-049-11	RES-CHIP	1K	5%	1/10W
	R6038	1-208-806-11	METAL CHIP	10K		1/10W		R7022	1-216-073-91	RES-CHIP	10K	5%	1/10W
	R6039	1-208-812-11	METAL CHIP	18K		1/10W		R7023	1-249-385-11	CARBON	2.2	5%	1/4W
٨	R6040	1-208-840-11	METAL CHIP	270K		1/10W		R7024	1-216-049-11	RES-CHIP	1K	5%	1/10W
<u>^</u>	R6041	1-240-241-11	CEMENTED	0.47	5%	20W		R7025	1-216-049-11	RES-CHIP	1K	5%	1/10W
<u> </u>	R6042	1-240-241-11	CEMENTED	0.47	5%	20W		R7026	1-249-385-11	CARBON	2.2	5%	1/4W
	R6043	1-211-964-11	METAL CHIP	33	0.50%	1/10W		R7045	1-216-081-00	RES-CHIP	22K	5%	1/10W
	R6044	1-249-393-11	CARBON	10	5%	1/4W		R7046	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
	R6046	1-216-073-91	RES-CHIP	10K	5%	1/10W		R7047	1-216-041-00	RES-CHIP	470	5%	1/10W
	R6047	1-216-041-00	RES-CHIP	470	5%	1/10W		R7048	1-216-041-00	RES-CHIP	470	5%	1/10W
	R6049	1-216-363-00	METAL OXIDE	0.33	5%	2W		R7051	1-216-295-91	SHORT	•	070	
	R6050	1-216-363-00	METAL OXIDE	0.33	5%	2W		R7052	1-216-077-91	RES-CHIP	15K	5%	1/10W
	R6051	1-249-393-11	CARBON	10	5%	1/4W		R7053	1-216-049-11	RES-CHIP	1K	5%	1/10W
	R6052	1-216-073-91	RES-CHIP	10K	5%	1/10W		R7054	1-216-295-91	SHORT			
	R6053	1-215-907-11	METAL OXIDE	22	5%	3W		R7055	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
	R6055	1-216-295-91	SHORT					R7056	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
	R6056	1-208-810-11	METAL CHIP	15K	0.50%	1/10W		R7058	1-249-429-11	CARBON	10K	5%	1/4W
	R6058	1-208-758-11	METAL CHIP	100		1/10W		R7059	1-249-385-11	CARBON	2.2	5%	1/4W
	R6059	1-249-417-11	CARBON	1K	5%	1/4W		R7060	1-249-385-11	CARBON	2.2	5%	1/4W
	R6062	1-216-295-91	SHORT		0,0			R7061	1-216-295-91	SHORT		0,0	
	R6063	1-216-073-91	RES-CHIP	10K	5%	1/10W		R7063	1-216-689-11	RES-CHIP	39K	5%	1/10W
	R6064	1-216-057-00	RES-CHIP	2.2K	5%	1/10W		R7064	1-216-049-11	RES-CHIP	1K	5%	1/10W
٨	R6065	1-216-049-11	RES-CHIP	1K	5%	1/10W		R7065	1-216-041-00	RES-CHIP	470	5%	1/10W
<u> </u>	R6066	1-216-343-00	METAL OXIDE	0.33	5%	1W		R7067	1-216-049-11	RES-CHIP	1K	5%	1/10W
	R6067	1-216-049-11	RES-CHIP	1K	5%	1/10W		R7068	1-216-041-00	RES-CHIP	470	5%	1/10W
	R6068	1-249-433-11	CARBON	22K	5%	1/4W		R7070	1-216-689-11	RES-CHIP	39K	5%	1/10W
	R7002	1-216-097-11	RES-CHIP	100K	5%	1/10W		R7071	1-216-121-11	RES-CHIP	1M	5%	1/10W
	R7003	1-216-689-11	RES-CHIP	39K	5%	1/10W		R7083	1-249-429-11	CARBON	10K	5%	1/4W
	R7004	1-216-689-11	RES-CHIP	39K	5%	1/10W		R7086	1-216-295-91	SHORT			
	R7005	1-216-121-11	RES-CHIP	1M	5%	1/10W		R7088	1-216-295-91	SHORT			
	R7006	1-216-089-91	RES-CHIP	47K	5%	1/10W		R7090	1-216-089-91	RES-CHIP	47K	5%	1/10W
	R7007	1-216-017-91	RES-CHIP	47	5%	1/10W		R7091	1-216-081-00	RES-CHIP	22K	5%	1/10W
	R7008	1-216-085-91	RES-CHIP	33K	5%	1/10W		R7092	1-216-025-11	RES-CHIP	100	5%	1/10W
	R7009	1-216-295-91	SHORT					R7093	1-216-025-11	RES-CHIP	100	5%	1/10W
	R7010	1-216-295-91	SHORT					R7094	1-216-081-00	RES-CHIP	22K	5%	1/10W
	R7011	1-216-061-91	RES-CHIP	3.3K	5%	1/10W		R7095	1-216-089-91	RES-CHIP	47K	5%	1/10W
	R7012	1-216-061-91	RES-CHIP	3.3K	5%	1/10W		R7096	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
	R7013	1-216-077-91	RES-CHIP	15K	5%	1/10W		R7097	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
	R7014	1-249-429-11	CARBON	10K	5%	1/4W		R7098	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
	R7015	1-249-429-11	CARBON	10K	5%	1/4W		R7099	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
	0 10	. = .0 .20 11	J. 11.12-011	1011	0 /0		ı	111 000	. = .0 000 01	1120 01111	1.71	0 /0	



R7101 12-16-08-140 RES-CHIP 22K 5% 1/10W R7103 1-216-08-141 RESCHIP 22K 5% 1/10W C9013 1-183-035-00 CERAMIC CHIP 0.047µF 500 C9014 1-161-630-00 CERAMIC CHIP 0.047µF 500 C9014 1-161-630-00 CERAMIC CHIP 0.047µF 500 C9015 1-163-037-00 CERAMIC CHIP 0.047µF 500 C9015 1-107-961-91 ELECT 10µF 20% 259 C9015 1-107-961-91 ELECT 20µF 20% 100 1-107-961-91 ELECT 20µF 20% 100 20% 1	REF.NO.	PART NO.	DESCRIPTION	VALUE	S			REF.NO.	PART NO.	DESCRIPTION	VALUE	S	
R7101 1-216-940-0 RES-CHIP 21K 5% 1/10W C9012 1-1616-930-0 CERAMIC CHIP 0.047µF 50W C9014 1-1616-930-0 CERAMIC CHIP 0.047µF 50W C9015 1-163-087-0 CERAMIC CHIP 0.047µF 50W C9014 1-167-941-9 ELECT 0.047µF 50W C9014 1-167-941-941-9 ELECT 0.047µF 50W C9014 1-167-941-941-941-941-941-941-941-941-941-941	R7100	1-216-081-00	RES-CHIP	22K	5%	1/10W		C9011	1-161-830-00	CERAMIC	.0047µF		500V
R7103								C9012	1-161-830-00	CERAMIC	.0047µF		500V
RELAY								C9013	1-163-035-00	CERAMIC CHIP	0.047µF		50V
RELAY C9015				IIX	J /0	1/1000		C9014	1-161-830-00	CERAMIC	.0047µF		500V
RY8001	R7 104	1-210-290-91	SHUKI									0.25pF	
RY8001 1-755-389-11 RELAY (AC POWER) C9020 1-107-961-91 ELECT 10yF 20% 2		RELAY						C9018	1_107_961_91	FLECT	10uF	20%	250V
TRANSFORMER	♠ DV6001	1 755 200 11										2070	
TRANSFORMER	Z:\ K10001	1-700-009-11	RELAT (AC FOWER)									20%	
TANASPORMER TANASPORMER LINE FILTER													
↑ 16002 1-435-475-11 TRANSFORMER STANDBY THERMISTOR ↑ 16002 1-435-675-11 TRANSFORMER CONVERTER (PIT) THERMISTOR ↑ 16003 1-435-577-11 TRANSFORMER CONVERTER (PIT) THERMISTOR ↑ 16002 1-435-675-11 TRANSFORMER CONVERTER (PIT) ↑ 16003 1-435-577-11 TRANSFORMER CONVERTER (PIT) ↑ 16003 1-435-575-11 TRANSFORMER CONVERTER (PIT) ↑ 16003 1-435-303-00 CERAMIC CHIP 0.047µF 10% 50V ← 16003 1-435-303-00 CERAMIC CHIP 0.047µF 10% 50V ← 16003 1-435-31-10 CERAMIC CHIP 0.047µF 10% 50V ← 16003 1-435-31-10 CERAMIC CHIP 0.047µF 10% 50V ← 16003 1-435-31-11 ELECT 100µF 20% 50V		TRANSFORMER										20 /0	50V
Table Tab											'		
THERMISTOR THERM		1-435-675-11	•					C9023	1-101-004-00	CERAMIC	0.01µF		50V
THERMISTOR	T6003	1-435-577-11	TRANSFORMER, CON	NVERTER (F	PIT)			C9024	1-163-035-00	CERAMIC CHIP	$0.047 \mu F$		50V
TH6002								C9025	1-104-653-11	ELECT	220µF	20%	16V
TH6002		THERMISTOR						C9026	1-163-035-00	CERAMIC CHIP	0.047µF		50V
TUNER C9028 1-163-017-00 CERAMIC CHIP 0.047µF 10% 50V C9029 1-163-017-00 CERAMIC CHIP 0.047µF 10% 50V C9031 1-163-116-00 CERAMIC 680pF 10% 2kV C9032 1-162-116-00 CERAMIC 680pF 10% 2kV C9032 1-162-116-00 CERAMIC 680pF 10% 2kV C9033 1-107-662-11 ELECT 22µF 20% 50V C9035 1-126-933-11 ELECT 10µF 20% 50V C9036 1-126-933-11 ELECT 10µF 20% 50V C9037 1-126-961-11 ELECT 2.2µF 20% 50V C9038 1-126-963-11 ELECT 330µF 20% 25V C9042 1-126-940-11 ELECT 330µF 20% 25V C9042 1-163-03-11 ELECT 10µF 20% 16V C9042 1-163-03-11 ELECT 10µF 20% 50V C9047 1-163-03-11 ELECT 10µF 20% 50V C9047 1-163-03-11 ELECT 10µF 20% 50V C9048 1-126-933-11 ELECT 10µF 20% 50V C9049 1-163-03-11 ELECT 10µF 20% 50V C9040 1-163-03-11 ELECT 10µF 20% 16V C9040 1-163-03-11 ELECT 10µF 2								C9027	1-101-004-00	CERAMIC	0.01µF		50V
TUNER	<u> </u>	1-803-970-11	THERMISTOR, POSIT	IVE									
TU001													
TU001		<u>TUNER</u>							1-163-017-00			10%	50V
TU002 8-598-542-20 TUNER, FSS BTF-WA412 C9031 1-162-116-00 CERAMIC 680pF 10% 2KV	↑ TU001	8.508.501.30	TIMED ESS RTE EM	N2					1-163-017-00	CERAMIC CHIP	.0047µF		50V
VARISTOR C9032 1-102-110-U0 CERAMIC 680pF 10% 2AV ♠ VD6001 1-801-074-11 VARISTOR ERZV10D271 C9033 1-107-662-11 ELECT 22μF 20% 250 CRYSTAL C9035 1-126-984-11 ELECT 10μF 20% 50V X201 1-760-895-21 VIBRATOR, CERAMIC C9038 1-126-963-11 ELECT 2.2μF 20% 50V X702 1-781-931-21 VIBRATOR, CRYSTAL C9042 1-126-940-11 ELECT 330μF 20% 50V * A-1332-075-A C BOARD, MOUNTED C9042 1-126-940-11 ELECT 330μF 20% 25V C9001 1-126-940-11 ELECT 330μF 20% 25V C9042 1-126-940-11 ELECT 330μF 20% 25V C9001 1-163-087-09 SCREW +PS 3X6 * CN9001 1-764-333-11 PLUG, CONNECTOR 10P * CN9001 1-766-333-11 PLUG, CONNECTOR 10P * CN9002 1-766-242-			*					C9031	1-162-116-00	CERAMIC	680pF	10%	2KV
VD6001 1-801-074-11	Z:\(\) 10002	0-090-042-20	TONEIX, 1 33 DTT -WA	712				C9032	1-162-116-00	CERAMIC	680pF	10%	2KV
VD6001 1-801-074-11 VARISTOR ERZV10D271 CPYSTAL C9035 1-126-933-11 ELECT 10µF 20% 50V C9036 1-126-964-11 ELECT 10µF 20% 50V C9037 1-126-961-11 ELECT 10µF 20% 50V C9038 1-126-963-11 ELECT 10µF 20% 50V C9038 1-126-963-11 ELECT 2.2µF 20% 50V C9038 1-126-963-11 ELECT 330µF 20% 25V C9046 1-126-963-11 ELECT 330µF 20% 25V C9047 1-163-021-91 CERAMIC CHIP 0.01µF 10% 50V C9047 1-163-021-91 CERAMIC CHIP 0.01µF 10% 50V C9046 1-126-940-11 ELECT 100µF 20% 16V C9047 1-163-021-91 CERAMIC CHIP 0.01µF 10% 50V C9046 1-126-940-11 ELECT 100µF 20% 16V C9047 1-163-021-91 CERAMIC CHIP 0.01µF 10% 50V C9046 1-126-940-11 ELECT 100µF 20% 25V C9047 1-163-021-91 CERAMIC CHIP 4pF 0.25pF 50V C9002 1-766-242-11 PIN,CONNECTOR (PC BOARD) 4P C9002 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V C9004 1-162-144-00 CERAMIC CHIP 4pF 0.25pF 50V C9004 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V C9004 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V C9005 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V C9005 8-719-991-33 DIODE 1SS133T-77 C9005		VARISTOR						C9033	1-107-662-11	FLECT	22µF	20%	250\/
Converted Con	^=												
CRYSTAL C9037	∠!\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1-801-074-11	VARISTOR ERZV10D	2/1									
CRYSTAL C9038													
X702 1-781-931-21 VIBRATOR, CRYSTAL C9042 1-126-940-11 ELECT 330μF 20% 25V C9046 1-126-940-11 ELECT 100μF 20% 16V C9047 1-163-021-91 CERAMIC CHIP 0.01μF 10% 50V CAPACITOR CAPACITOR C9001 1-126-940-11 ELECT 330μF 20% 25V C9002 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V C9003 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V C9004 1-162-114-00 CERAMIC CHIP 4pF 0.25pF 50V C9005 1-163-087-00 C9005 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V C9005 1-163-087-00 C900		CRYSTAL									•		50V
* A-1332-075-A C BOARD, MOUNTED * A-1332-075-A C BOARD, MOUNTED * CAPACITOR CGAPACITOR CONNECTOR * CN9001 1-764-333-11 PLUG,CONNECTOR 10P	X201	1-760-895-21	VIBRATOR, CERAMIC										
* A-1332-075-A C BOARD, MOUNTED * A-1332-075-A C BOARD, MOUNTED ** CONNECTOR ** CN9001 1-764-333-11 PLUG, CONNECTOR 10P ** CN9002 1-766-242-11 PIN, CONNECTOR (PC BOARD) 4P ** CN9003 1-695-915-11 TAB (CONTACT) ** CN9004 1-695-915-11 TAB (CONTACT) ** CN9004 1-695-915-11 TAB (CONTACT) ** CN9005 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V ** CN9006 1-769-915-11 TAB (CONTACT) ** DIODE ** DIODE ** DIODE ** DIODE 1SS133T-77 ** D9001 8-719-991-33 DIODE 1SS133T-77 ** D9002 8-719-991-33 DIODE ISS133T-77 ** D9003 8-719-991-33 DIODE ISS133T-77 ** D9004 1-695-915-11 TAB (CONTACT) ** D9001 8-719-991-33 DIODE ISS133T-77 ** D9003 8-719-991-33 DIODE ISS133T-77 ** D9004 1-695-915-11 TAB (CONTACT) ** D9004 D1005 D10	X702	1-781-931-21	VIBRATOR, CRYSTAL						1-126-940-11		330µF	20%	25V
* A-1332-075-A C BOARD, MOUNTED 7-682-647-09 SCREW +PS 3X6 * CN9001 1-764-333-11 PLUG, CONNECTOR 10P * CN9002 1-766-242-11 PIN, CONNECTOR (PC BOARD) 4P CAPACITOR C9001 1-126-940-11 ELECT 330µF 20% 25V C9002 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V C9003 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V C9004 1-162-114-00 CERAMIC 0.0047µF 2KV C9005 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V C9006 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V C9007 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V C9008 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V C9009 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V C9000 1-163-087-00 CER								C9046	1-126-933-11	ELECT	100µF	20%	16V
7-682-647-09 SCREW +PS 3X6 * CN9001 1-764-333-11 PLUG,CONNECTOR 10P * CN9002 1-766-242-11 PIN,CONNECTOR (PC BOARD) 4P CN9003 1-695-915-11 TAB (CONTACT) CN9004 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V CN9004 1-162-114-00 CERAMIC CHIP 4pF 0.25pF 50V CN9005 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V CN9006 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V DIODE * CN9001 1-764-333-11 PLUG,CONNECTOR 10P * CN9002 1-766-242-11 PIN,CONNECTOR (PC BOARD) 4P CN9003 1-695-915-11 TAB (CONTACT) * CN9004 1-695-915-11 TAB (CONTACT) DIODE * DIODE DIODE DIODE * ON 10 1 1-764-333-11 PLUG,CONNECTOR 10P * CN9002 1-766-242-11 PIN,CONNECTOR (PC BOARD) 4P * CN9003 1-695-915-11 TAB (CONTACT) * DIODE * DIODE DIODE DIODE 1SS133T-77 D9003 8-719-991-33 DIODE 1SS133T-77								C9047	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
* CN9002 1-766-242-11 PIN,CONNECTOR (PC BOARD) 4P CAPACITOR C9001 1-126-940-11 ELECT 330µF 20% 25V C9002 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V C9004 1-162-114-00 CERAMIC CHIP 4pF 0.25pF 50V C9005 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V C9006 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V C9007 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V C9008 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V C9009 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V	*	A-1332-075-A	C BOARD, MOUNT	ED					CONNECTOR				
CAPACITOR * CN9002 1-766-242-11 PIN,CONNECTOR (PC BOARD) 4P CN9003 1-695-915-11 TAB (CONTACT) CN9004 1-695-915-11 TAB (CONTACT) CN9002 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V C9003 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V C9004 1-162-114-00 CERAMIC .0047μF 2KV C9005 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V D9001 8-719-991-33 DIODE 1SS133T-77 D9002 8-719-400-75 DIODE MA3091-TX D9003 8-719-991-33 DIODE 1SS133T-77		7-682-647-09	SCREW +PS 3X6				*	CN9001	1-764-333-11	PLUG,CONNECTOR		10P	
C9001 1-126-940-11 ELECT 330μF 20% 25V C9002 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V C9003 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V C9004 1-162-114-00 CERAMIC CHIP 4pF 0.25pF 50V C9005 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V D9001 8-719-991-33 DIODE 1SS133T-77 D9002 8-719-400-75 DIODE MA3091-TX D9003 8-719-991-33 DIODE 1SS133T-77		7 002 0 11 00	3011211 11 0 0/10				*	CN9002	1-766-242-11		BOARD)	4P	
C9001 1-126-940-11 ELECT 330μF 20% 25V C9002 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V C9003 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V C9004 1-162-114-00 CERAMIC .0047μF 2KV C9005 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V D9001 8-719-991-33 DIODE 1SS133T-77 D9002 8-719-400-75 DIODE MA3091-TX D9003 8-719-991-33 DIODE 1SS133T-77		CAPACITOR							1-695-915-11				
C9002 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V C9003 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V C9004 1-162-114-00 CERAMIC .0047μF 2KV D9001 8-719-991-33 DIODE 1SS133T-77 C9005 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V D9002 8-719-400-75 DIODE MA3091-TX D9003 8-719-991-33 DIODE 1SS133T-77 D9004 8-719-991-33 DIODE 1SS133T-77					222/	0=1/		CN9004	1-695-915-11	TAB (CONTACT)			
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C9004 1-162-114-00 CERAMIC .0047μF 2KV D9001 8-719-991-33 DIODE 1SS133T-77 C9005 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V D9002 8-719-400-75 DIODE MA3091-TX D9003 8-719-991-33 DIODE 1SS133T-77 D9003 8-719-991-33 DIODE 1SS133T-77 D9003 8-719-991-33 DIODE 1SS133T-77				-					DIODE				
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D9003 8-719-991-33 DIODE 1SS133T-77													
D000F 0.740.404.F0 D10DF MAAA TV	C9005	1-163-087-00	CERAMIC CHIP	4pF	0.25pF	50V							
C9006 1-163-217-11 CERAMIC CHIP 1pF 0.25pF 50V D9005 8-/19-404-50 DIODE MA111-TX													
D0000 0 740 0F4 0F DIODE H0000TD		1-163-217-11		1pF									
C9007 1-163-217-11 CERAMIC CHIP 1pF 0.25pF 50V D9006 8-719-051-85 DIODE HSS83TD		1-163-217-11	CERAMIC CHIP	1pF				D9006	8-719-051-85	DIODE HSS831D			
C9008 1-163-222-11 CERAMIC CHIP 5pF 0.25pF 50V		1-163-222-11	CERAMIC CHIP	5pF				D000=	0.740.054.05	DIODE HOSSET			
C9009 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V D9007 8-719-051-85 DIODE HSS83TD	C9009	1-163-087-00	CERAMIC CHIP	4pF	0.25pF	50V							
C9010 1-163-087-00 CERAMIC CHIP 4pF 0.25pF 50V D9008 8-719-051-85 DIODE HSS83TD	C9010	1-163-087-00	CERAMIC CHIP	4pF	0.25pF	50V							
D9009 8-719-908-03 DIODE GP08DPKG23								D9009 D9010	8-719-908-03 8-719-110-17				
D9010 8-719-110-17 DIODE MTZJ-T-77-10													



REF.NO.	PART NO.	DESCRIPTION	VALU	ES		REF.NO.	PART NO.	DESCRIPTION	VALU	ES	
D9013	8-719-991-33	DIODE 1SS133T-77				R9014	1-249-409-11	CARBON	220	5%	1/4W
D9014	8-719-991-33	DIODE 1SS133T-77				R9015	1-249-409-11	CARBON	220	5%	1/4W
D9015	8-719-991-33	DIODE 1SS133T-77				R9016	1-249-409-11	CARBON	220	5%	1/4W
D9016	8-719-991-33	DIODE 1SS133T-77				R9018	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
D9017	8-719-991-33	DIODE 1SS133T-77				R9019	1-216-212-00	RES-CHIP	3.9K	5%	1/8W
	<u>IC</u>					R9026	1-208-789-11	METAL CHIP	2K	0.50%	1/10W
	<u>10</u>					R9031	1-208-789-11	METAL CHIP	2K	0.50%	1/10W
IC9001	8-759-360-83	IC TDA6111Q/N4				R9033	1-215-447-00	METAL	12K	1%	1/4W
IC9002	8-759-360-83	IC TDA6111Q/N4				R9034	1-215-439-00	METAL	5.6K	1%	1/4W
IC9003	8-759-360-83	IC TDA6111Q/N4				R9035	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
	JACK					R9036	1-216-049-11	RES-CHIP	1K	5%	1/10W
^						R9037	1-240-233-71	METAL OXIDE	100	5%	3W
⚠ J9001	1-451-470-21	SOCKET, CRT				R9038	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
						R9039	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
	COIL					R9041	1-216-049-11	RES-CHIP	1K	5%	1/10W
L9002	1-408-591-11	INDUCTOR	1µH			R9042	1-216-049-11	RES-CHIP	1K	5%	1/10W
L9003	1-408-591-11	INDUCTOR	1µH			R9043	1-240-233-71	METAL OXIDE	100	5%	3W
L9004	1-408-591-11	INDUCTOR	1µH			R9044	1-240-233-71	METAL OXIDE	100	5%	3W
L9005	1-406-666-21	INDUCTOR	150µH			R9047	1-202-557-00	SOLID	220	20%	1/2W
L9006	1-412-525-31	INDUCTOR	10µH			R9048	1-216-049-11	RES-CHIP	1K	5%	1/10W
	TRANSISTOR					R9049	1-216-049-11	RES-CHIP	1K	5%	1/10W
00004	0.700.404.00	TDANICICTOD OCDZO	A ODO TV			R9050	1-249-424-11	CARBON	3.9K	5%	1/4W
Q9001	8-729-424-02	TRANSISTOR 2SB709				R9051	1-202-557-00	SOLID	220	20%	1/2W
Q9002	8-729-423-33	TRANSISTOR 2SC33				R9052	1-202-557-00	SOLID	220	20%	1/2W
Q9003	8-729-422-27	TRANSISTOR 2SD60				R9053	1-249-424-11	CARBON	3.9K	5%	1/4W
Q9004	8-729-422-27	TRANSISTOR 2SD60				113033	1-2-10	OAINDON	0.010	370	1/700
Q9005	8-729-422-27	TRANSISTOR 2SD60	IA-QRS-IX			R9054	1-249-424-11	CARBON	3.9K	5%	1/4W
00000	0 700 400 00	TDANICICTOD 20022	11 A ODOTA			R9055	1-260-126-81	CARBON	180K	5%	1/2W
Q9008	8-729-423-33	TRANSISTOR 2SC33				R9056	1-202-549-00	SOLID	1001	20%	1/2W
Q9009	8-729-424-02 8-729-424-02	TRANSISTOR 2SB709				R9057	1-202-847-00	SOLID	560K	20%	1/2W
Q9010		TRANSISTOR 2SB709				R9059	1-202-818-00	SOLID	1K	20%	1/2W
Q9011	8-729-424-02	TRANSISTOR 2SB709				1,0000	1 202 010 00	OOLID	111	2070	1/211
Q9012	8-729-423-33	TRANSISTOR 2SC33				R9061	1-202-549-00	SOLID	100	20%	1/2W
Q9014	8-729-823-81	TRANSISTOR 2SC46	32LS-UB1			R9062	1-260-123-11	CARBON	100K	5%	1/2W
						R9063	1-260-123-11	CARBON	100K	5%	1/2W
	RESISTOR					R9064	1-260-126-81	CARBON	180K	5%	1/2W
R9001	1-216-226-00	RES-CHIP	15K	5%	1/8W	R9065	1-249-425-11	CARBON	4.7K	5%	1/4W
R9004	1-249-428-11	CARBON	8.2K	5%	1/4W	1,0000	1 240 420 11	ONINDON	7.710	0 /0	1/4**
R9005	1-249-421-11	CARBON	2.2K	5%	1/4W	R9067	1-219-769-11	CARBON	3.3M	5%	1/2W
R9006	1-249-429-11	CARBON	10K	5%	1/4W	R9068	1-216-101-00	RES-CHIP	150K	5%	1/10W
R9007	1-208-789-11	METAL CHIP	2K		1/10W	R9070	1-249-411-11	CARBON	330	5%	1/4W
1/9007	1-200-103-11	MILITAL OF HIL	4۱\	0.00 /0	17 10 9 9	R9070	1-249-411-11	CARBON	330	5%	1/4W
R9008	1-216-085-91	RES-CHIP	33K	5%	1/10W	R9071	1-249-411-11	CARBON	330	5% 5%	1/4W
R9009	1-249-429-11	CARBON	10K	5%	1/10VV 1/4W	10072	ι Δ ⊤∜ ⁻ ₹ -	OUINDON	000	J /U	1/711
R9010	1-249-429-11	CARBON	10K	5%	1/4W	R9073	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9012	1-249-417-11	CARBON	1K	5%	1/4W	R9076	1-219-769-11	CARBON	3.3M	5%	1/2W
R9012	1-249-417-11	RES-CHIP	1K	5% 5%	1/4VV 1/10W	R9070	1-249-417-11	CARBON	3.3W	5%	1/4W
רושטוט	1-410-0 4 8-11	INLO-OI IIF	11/	J /0	1/ 1000	1					
						R9078	1-249-427-11	CARBON	6.8K	5%	1/4W



REF.NO.	PART NO.	DESCRIPTION	VALUE	S		REF.NO.	PART NO.	DESCRIPTION	VALUES	3	
R9079	1-249-426-11	CARBON	5.6K	5%	1/4W	C5019	1-126-968-11	ELECT	100µF	20%	50V
R9081	1-247-843-11	CARBON	3.3K	5%	1/4W	C5020	1-126-767-11	ELECT	1000μF	20%	16V
R9083	1-249-436-11	CARBON	39K	5%	1/4W	C5021	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
R9084	1-260-126-81	CARBON	180K	5%	1/2W	C5022	1-137-368-11	MYLAR	.0047µF	5%	50V
R9085	1-260-126-81	CARBON	180K	5%	1/2W	C5023	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
R9089	1-215-445-00	METAL	10K	1%	1/4W	C5024	1-102-038-00	CERAMIC	0.001µF		500V
R9091	1-215-429-00	METAL	2.2K	1%	1/4W	C5025	1-130-471-00	MYLAR	0.001µF	5%	50V
						C5026	1-107-655-11	ELECT	47μF	20%	250V
	VARIABLE RES	ISTOR				C5027	1-126-963-11	ELECT	4.7μF	20%	50V
		101011				C5028	1-126-963-11	ELECT	4.7μF	20%	50V
⚠ RV9001	1-241-714-11	RES, ADJ, METAL FI	LM 110M			C5030	1-136-153-00	FILM	0.01µF	5%	50V
RV9002	1-241-788-11	RES, ADJ, CARBON	100K			C5031	1-163-011-11	CERAMIC CHIP	0.0015µF	10%	50V
						C5032	1-104-760-11	CERAMIC CHIP	0.047µF	10%	50V
						C5033	1-136-165-00	FILM	0.1μF	5%	50V
*	A-1346-947-A	•	LETE			C5034	1-162-114-00	CERAMIC	.0047µF		2KV
	(KV-32HS20/32)					C5035	1-126-933-11	ELECT	100μF	20%	16V
*	A-1346-948-A	,				C5036	1-126-941-11	ELECT	470µF	20%	25V
	(KV-36HS20/36I	HS20H/32XBR450C/36X	BR450/36XB	R450H	only)	C5037	1-107-670-11	ELECT	10μF	20%	400V
						C5038	1-104-660-91	ELECT	47µF	20%	16V
	3-710-578-01	COVER, VOLUME, 6								_0,0	
	4-382-854-01	SCREW (M3X8), P, S	. ,			C5040	1-126-935-11	ELECT	470µF	20%	16V
	4-382-854-21	SCREW (M3X14), P,	SW (+)			C5041	1-126-935-11	ELECT	470µF	20%	16V
						C5043	1-126-767-11	ELECT	1000µF	20%	16V
		e leads associated with th				C5044	1-165-319-11	CERAMIC CHIP	0.1µF	_0,0	50V
		and must be ordered sep	•	r the		C5045	1-165-319-11	CERAMIC CHIP	0.1µF		50V
	following leads w	vhen requesting this D Bo	ard:					000 0	V p.		
\bigwedge	1-251-715-22	CAP ASSY, HIGH-VC	I TAGE			C5046	1-163-025-11	CERAMIC CHIP	0.001µF		50V
<u>^</u>	1-900-805-19	WIRE ASSY, FOCUS				C5047	1-163-025-11	CERAMIC CHIP	0.001µF		50V
<u></u>	1 000 000 10	WIINE 71001, 1 0000	117			C5049	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V
	CADACITOD					C5050	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
05004	CAPACITOR	OFFIANIO OUR	0.0000 5	100/	50) (C5051	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C5001	1-164-161-11	CERAMIC CHIP	0.0022µF		50V	C5052	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C5002	1-106-383-00	MYLAR	0.047µF	10%	200V	C5053	1-107-372-11	MYLAR	0.121μF	10%	200V
C5004	1-106-383-00	MYLAR	0.047µF	10%	200V	C5056	1-162-318-11	CERAMIC	0.22μ1 0.001μF	10%	500V
C5005	1-126-235-11	ELECT	100µF	20%	6.3V	C5057	1-162-134-11	CERAMIC	470pF	10%	2KV
C5006	1-126-964-11	ELECT	10μF	20%	50V	C5058	1-162-116-00	CERAMIC	680pF	10%	2KV
C5007	1-126-941-11	ELECT	470µF	20%	25V						
C5008	1-126-940-11	ELECT	330µF	20%	25V	C5059	1-162-116-00	CERAMIC	680pF	10%	2KV
C5009	1-126-941-11	ELECT	470µF	20%	25V	C5060	1-137-417-11	MYLAR	.0047µF	10%	200V
C5011	1-107-641-11	ELECT	220µF	20%	160V	C5061	1-117-839-11	FILM	9100pF	3%	1.5KV
C5012	1-163-017-00	CERAMIC CHIP	.0047µF	10%	50V	C5063	1-117-839-11	FILM	9100pF	3%	1.5KV
						C5064	1-115-520-11	FILM	0.68µF	5%	250V
C5013	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V	05005	4 407 500 44	FUA	0.00 5	00/	400\
C5015	1-107-884-11	ELECT	1000μF	20%	16V	C5065	1-107-506-11	FILM	0.68µF	3%	400V
C5016	1-136-171-00	FILM	0.33µF	5%	50V	C5066	1-109-921-11	CERAMIC	0.0015µF		500V
C5017	1-115-185-11	CERAMIC CHIP	0.033µF	10%	50V	C5069	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C5018	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	C5070	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
						C5071	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V



C6072	REF.NO.	PART NO.	DESCRIPTION	VALUE	S		REF	NO.	PART NO.	DESCRIPTION	VALUE	S	
CS073	C5072	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	C56	11	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C5073 1-15-339-11 CERAMIC CHIP 0.1 pr 10% 50V C5613 1-15-185-11 CERAMIC CHIP 0.0 pr 10% 50V C5614 1-15-86-50 FILM 0.1 pr 5% 50V C5616 1-136-76-50 FILM 0.1 pr 5% 50V C5616 1-136-76-50 FILM 0.1 pr 5% 50V C5616 1-136-76-50 FILM 0.1 pr 5% 50V C5007 1-16-30-21-91 CERAMIC CHIP 0.0 pr 10% 50V C5616 1-136-76-50 FILM 0.1 pr 5% 50V C5000 1-137-372-11 MYLAR 0.022pr 5% 50V C5617 1-10-4680-91 ELECT 47 pr 20% 50V C5612 1-137-372-11 MYLAR 0.022pr 5% 50V C5612 1-136-371-00 FILM 0.33pr 5% 50V C5612 1-10-7888-11 ELECT 47 pr 20% 25V C5621 1-136-785-00 FILM 0.3 pr 5% 50V C5612 1-10-7888-11 ELECT 47 pr 20% 25V C5623 1-12-833-11 ELECT 100 pr 5% 50V C5623 1-12-833-11 ELECT 100 pr 20% 16V C5630 1-10-4680-91 ELECT 47 pr 20% 25V C5623 1-12-833-11 ELECT 100 pr 20% 16V C5530 1-10-4680-91 ELECT 47 pr 20% 50V C5623 1-12-33-21-11 ELECT 100 pr 20% 16V C5530 1-10-4680-91 ELECT 47 pr 20% 50V C5630 1-138-40-11 ELECT 100 pr 20% 16V C5530 1-138-40-11 ELECT 47 pr 20% 50V C55							C56	12	1-126-964-11	ELECT	10μF	20%	50V
C5076							C56	13	1-115-185-11	CERAMIC CHIP	0.033µF	10%	50V
C5077							C56	14	1-126-964-11	ELECT	10μF	20%	50V
C5080									1-136-165-00	FILM	-		50V
C5080	C5070	1_163_021_01	CEDAMIC CHID	0.01uE	10%	50\/	C56	17	1-104-660-91	FLECT	47uF	20%	16V
C5081 1-137-372-11 MYLAR 0.022µF 5% 50V C6819 1-163-127-00 CERAMIC CHIP 270pF 5% 50V C5621 1-136-186-00 FILM 0.1µF 5% 50V C5621 1-136-186-00 FILM 0.1µF 5% 50V C5623 1-126-933-11 ELECT 100µF 20% 25V C5623 1-126-933-11 ELECT 100µF 20% 15V C5623 1-126-933-11 ELECT 100µF 20% 15V C5624 1-126-933-11 ELECT 100µF 20% 15V C5624 1-126-933-11 ELECT 100µF 20% 15V C5625 1-163-933-11 ELECT 100µF 20% 25V C5624 1-126-933-11 ELECT 100µF 20% 25V C5625 1-126-933-11 ELECT 100µF 20% 25V C5625 1-163-933-11 ELECT 100µF 20% 25V C5625 1-126-933-11 ELECT 100µF 20% 25V C5625 1-126-933-11 ELECT 100µF 20% 25V C5625 1-126-933-11 ELECT 100µF 20% 25V C5620 1-136-933-11 ELECT 100µF 20% 25V C5620 1-126-933-11 ELECT 47µF 20% 50V C5627 1-126-933-11 ELECT 47µF 20% 50V C5627 1-126-933-11 ELECT 47µF 20% 50V C5626 1-163-203-10 ECRAMIC CHIP 0.001µF 5% 50V C5621 1-163-003-91 ELECT 47µF 20% 50V C5621 1-163-473-11 ELECT 47µF 20% 50V C5621 1-163-473-11 ELECT 47µF 20% 50V C5622 1-163-473-11 ELECT 47µF 20% 50V C5623 1-163-							1						
C5102 1-107-888-11 ELECT 47µF 20% 25V C5623 1-138-165-00 FILM 0.1µF 5% 50V C5501 1-107-888-11 ELECT 47µF 20% 25V C5623 1-126-933-11 ELECT 100µF 20% 50V C5503 1-138-940-11 ELECT 100µF 20% 50V C5503 1-138-940-11 ELECT 100µF 20% 50V C5505 1-126-933-11 ELECT 100µF 20% 50V C5505 1-126-963-11 ELECT 100µF 20% 50V C5505 1-126-963-11 ELECT 47µF 20% 50V C5505 1-126-963-11 ELECT 100µF 20% 16V C6510 1-130-495-00 MTLCR 0.1µF 5% 50V C5511 1-126-953-11 ELECT 100µF 20% 16V C6516 1-163-009-91 EERAMIC CHIP 0.01µF 10% 50V C5511 1-126-953-11 ELECT 47µF 20% 50V C5511 1-126-953-11 ELECT 100µF 20% 16V C6516 1-163-009-91 EERAMIC CHIP 0.01µF 10% 50V C5511 1-126-951-11 ELECT 47µF 20% 50V C5511 1-126-951-11 ELECT 47µF 20% 50V C5511 1-126-951-11 ELECT 47µF 20% 50V C5511 1-136-143-11 ELECT 47µF 20% 50V C5521 1-163-143-11 ELECT 47µF 20% 50V C5521 1-163-963-11 ELECT 47µF 20% 50V C											•		
C5501 1-107-888-11 ELECT													
C5502 1-126-941-11 ELECT 470 20% 25V C5628 1-163-251-11 CERAMIC CHIP 100 5 5% 50V C5501 1-104-686-91 ELECT 100 5 20% 25V C5628 1-126-933-11 ELECT 100 5 20% 25V C5505 1-126-963-11 ELECT 100 5 20% 25V C5507 1-163-141-00 C5640 1-163-021-11 ELECT 100 5 50V C5507 1-163-341-10 C5640 1-163-021-11 ELECT 100 5 50V C5508 1-163-031-11 ELECT 47 5 20% 25V C5508 1-163-031-11 ELECT 100 5 50V C5509 1-163-263-11 ELECT 100 5 50V C5509 1-163-263-11 ELECT 100 5 50V C5509 1-163-263-11 ELECT 100 5 50V C5509 1-163-03-11 ELECT 100 5 50V C5509 1-163-02-11 ELECT 100 5 50V C5519 1-104-780-11 ELECT 100 5 50V C5519 1-164-143-11 ELECT 100 5 50V E5519 1-154-560 5 50V E													
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C5504 1-104-660-91 ELECT 47µF 20% 16V C6503 1-131-940-11 ELECT 1200µF 20% 250V C5505 1-126-964-11 ELECT 10µF 20% 50V C6504 1-133-92-91 CERAMIC CHIP 0.01µF 10% 50V C5507 1-163-141-00 CERAMIC CHIP 0.01µF 5% 50V C6508 1-104-664-11 ELECT 47µF 20% 50V C6508 1-104-664-11 ELECT 47µF 20% 50V C6508 1-104-664-11 ELECT 47µF 20% 50V C6509 1-163-363-11 CERAMIC CHIP 330pF 5% 50V C6511 1-133-495-00 MYLAR 0.1µF 5% 50V C6511 1-126-933-11 ELECT 100µF 20% 16V C6511 1-163-003-91 CERAMIC CHIP 0.01µF 10% 50V C6511 1-126-933-11 ELECT 100µF 20% 16V C6516 1-163-003-91 CERAMIC CHIP 0.01µF 10% 50V C6518 1-129-790-81 FILM 0.003pµF 5% 630V C6518 1-138-79-11 FILM 0.01µF 20% 50V C6519 1-126-931-11 CERAMIC CHIP 0.01µF 5% 50V C6519 1-126-963-11 ELECT 10µF 20% 50V C6519 1-126-961-11 CERAMIC CHIP 0.01µF 5% 50V C6519 1-126-961-11 ELECT 10µF 20% 50V C6519 1-128-961-11 FILM 0.01µF 20% 50V C6521 1-163-165-00 FILM 0.1µF 5% 50V C6522 1-163-17-10 FILM 0.01µF 10% 50V C6525 1-164-143-11 CERAMIC CHIP 0.01µF 10% 50V C6526 1-164-143-11 CERAMIC 0.001µF 10% 10V C6550 1-164-143-11 CERAMIC 0.001µF 10W 10V C655	C5502	1-126-941-11	ELECT	470µF	20%	25V	C56	25	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C5504 1-104-660-91 ELECT 47µF 20% 50V C6503 1-131-940-11 ELECT 120µF 20% 25V C5505 1-126-963-11 ELECT 10µF 20% 50V C6504 1-183-021-91 CERAMIC CHIP 0.01µF 10% 50V C5507 1-163-141-00 CERAMIC CHIP 0.01µF 5% 50V C6508 1-104-664-11 ELECT 47µF 20% 50V C6509 1-163-263-11 CERAMIC CHIP 0.01µF 5% 50V C6510 1-104-664-11 ELECT 47µF 20% 50V C6510 1-130-4950-0 MYLAR 0.1µF 50V C6510 1-130-4950-0 MYLAR 0.1µF 50V C6511 1-126-933-11 ELECT 10µµF 20% 50V C6511 1-126-933-11 ELECT 10µµF 20% 16V C6516 1-163-002-91 CERAMIC CHIP 0.01µF 10% 50V C5511 1-126-933-11 ELECT 10µµF 20% 50V C6510 1-163-002-91 CERAMIC CHIP 0.01µF 10% 50V C6519 1-163-021-91 CERAMIC CHIP 0.01µF 10% 50V C6519 1-164-78-11 ELECT 4.7µF 20% 50V C6522 1-163-275-11 ELECT 4.7µF 20% 50V C6523 1-164-143-11 CERAMIC CHIP 0.01µF 5% 50V C6526 1-164-143-11 CERAMIC 0.001µF 10% 10V C6542 1-164-182-11 CERAMIC CHIP 0.02µF 5% 50V C6526 1-164-143-11 CERAMIC 0.001µF 10% 10V C6544 1-107-656-12 ELECT 20µµF 20% 25V C6546 1-128-961-11 ELECT 4.7µF 20% 20% 25V C6547 1-113-610-11 ELECT 4.7µPF 20% 20% 25V C6547 1-113-610-11 ELECT 4.7µPF 20% 20% 25V C6569 1-164-80-91 ELECT 4.7µPF 20% 50V C6569 1-133-498-51 ELECT 4.7µPF 20% 50V C6569 1-133-498-51 ELECT 4.7µPF 20% 50V C6569 1-138-98-51 CERAMIC 0.047µF 20% 50V C6569 1-138-98-51 CERAMIC 0.047µF 20% 25V C6560 1-138-98-51 CERAMIC 0	C5503	1-104-665-11	ELECT		20%	25V	C56	28	1-126-933-11	ELECT	100µF	20%	16V
C5505	C5504	1-104-660-91	ELECT	47μF	20%	16V	C65	03	1-131-940-11	ELECT	1200µF	20%	250V
C5507 1-163-141-00 CERAMIC CHIP 0.001µF 5% 50V C6508 1-104-664-11 ELECT 47µF 20% 25V C5508 1-163-031-91 CERAMIC CHIP 300pF 5% 50V C6510 1-130-495-00 MYLAR 0.1µF 5% 50V C5511 1-163-021-91 CERAMIC CHIP 0.01µF 10% 50V C6511 1-163-021-91 CERAMIC CHIP 0.01µF 10% 50V C6511 1-163-021-91 CERAMIC CHIP 0.001µF 10% 50V C6514 1-163-021-91 CERAMIC CHIP 0.01µF 10% 50V C6518 1-129-709-81 FILM 0.003µF 5% 630V C6518 1-129-709-81 FILM 0.001µF 20% 50V C6519 1-104-760-11 CERAMIC CHIP 0.001µF 5% 50V C6525 1-164-143-11 CERAMIC 0.001µF 10% 10W		1-126-964-11	ELECT		20%	50V	C65	04	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
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C5514 1-163-021-91 CERAMIC CHIP 0.01µF 10% 50V C6517 1-126-963-11 ELECT 4.7µF 20% 50V C5518 1-129-709-61 FILM 0.003µF 5% 630V C6518 1-136-479-11 FILM 0.001µF 2% 50V C5519 1-104-760-11 CERAMIC CHIP 0.047µF 10% 50V C6519 1-136-894-11 ELECT 10µF 20% 50V C5522 1-163-275-11 CERAMIC CHIP 0.01µF 5% 50V C6525 1-164-143-11 CERAMIC 0.001µF 10% 11V C5531 1-136-165-00 FILM 0.1µF 5% 50V C6526 1-164-143-11 CERAMIC 0.001µF 10% 11V C5542 1-164-182-11 CERAMIC CHIP 0.003µF 10% 50V C6532 1-135-988-21 FILM 56000pF 3% 800V C5542 1-164-183-11 CERAMIC CHIP 0.015µF 5% 200V C6534 1-1											•		
C5518 1-129-709-61 FILM 0.0039µF 5% 630V C5519 1-104-760-11 CERAMIC CHIP 0.047µF 10% 50V C6519 1-126-964-11 ELECT 10µF 20% 50V C5522 1-163-275-11 CERAMIC CHIP 0.001µF 5% 50V C6525 1-164-143-11 CERAMIC 0.001µF 10% 1KV C5531 1-136-165-00 FILM 0.1µF 5% 50V C6526 1-164-143-11 CERAMIC 0.001µF 10% 1KV C5542 1-164-182-11 CERAMIC CHIP 0.0033µF 10% 50V C6526 1-164-143-11 CERAMIC 0.001µF 10% 1KV C5548 1-137-194-81 FILM 0.47µF 5% 50V C6544 1-107-855-12 ELECT(BLOCK) 330µF 160V C5550 1-129-716-00 FILM 0.015µF 5% 200V C6544 1-107-855-12 ELECT(BLOCK) 330µF 160V C5576 1-104-666-11 ELECT 220µF 20% 25V C6546 1-128-548-11 ELECT 220µF 20% 25V C6577 1-104-666-11 ELECT 220µF 20% 25V C6546 1-128-548-11 ELECT 4700µF 20% 25V C5587 1-104-66-11 ELECT 220µF 20% 25V C6548 1-136-153-00 FILM 0.01µF 5% 50V C6548 1-128-549-11 ELECT 3300µF 20% 25V C5588 1-136-153-00 FILM 0.01µF 5% 50V C6551 1-163-037-11 CERAMIC CHIP 0.022µF 10% 50V C5592 1-153-39-11 CERAMIC CHIP 0.1µF 10% 50V C6584 1-128-549-11 ELECT 1µF 20% 50V C5592 1-136-153-00 FILM 0.01µF 5% 50V C6581 1-136-037-11 CERAMIC CHIP 0.022µF 10% 50V C5592 1-136-60-01 ELECT 1µF 20% 50V C5592 1-136-60-01 ELECT 1µF 20% 50V C5593 1-136-165-00 FILM 0.1µF 5% 50V C6586 1-113-924-11 CERAMIC 0.0047µF 20% 125V C5598 1-104-660-91 ELECT 47µF 20% 16V C6588 1-113-924-11 CERAMIC 0.0047µF 20% 125V C5600 1-104-660-91 ELECT 47µF 20% 16V C6589 1-113-924-11 CERAMIC 0.0047µF 20% 125V C5601 1-136-165-00 FILM 0.1µF 5% 50V C6599 1-13-924-11 CERAMIC 0.0047µF 20% 125V C5601 1-104-660-91 ELECT 47µF 20% 16V C6589 1-113-924-11 CERAMIC 0.0047µF 20% 125V C5601 1-104-660-91 ELECT 47µF 20% 16V C6589 1-113-924-11 CERAMIC 0.0047µF 20% 125V C5601 1-104-660-91 ELECT 47µF 20% 16V C6590 1-131-940-11 ELECT 1200µF 20% 250V C5601 1-104-660-91 ELECT 47µF 20% 16V C6590 1-131-940-11 ELECT 1200µF 20% 125V C5601 1-104-660-91 ELECT 47µF 20% 16V C6590 1-131-940-11 ELECT 1200µF 20% 250V C5600 1-104-660-91 ELECT 47µF 20% 16V C6590 1-131-940-11 ELECT 1200µF 20% 250V C5600 1-104-660-91 ELECT 47µF 20% 16V C6590 1-131-940-11 ELECT 1200µF 20% 250V C5	00011	1 120 000 11		100µ1	2070	101					·		
C5519 1-104-760-11 CERAMIC CHIP 0.047μF 10% 50V C6519 1-126-964-11 ELECT 10μF 20% 50V C5522 1-163-275-11 CERAMIC CHIP 0.001μF 5% 50V C6525 1-164-143-11 CERAMIC 0.001μF 10% 11% C5531 1-136-165-00 FILM 0.1μF 5% 50V C6526 1-164-143-11 CERAMIC 0.001μF 10% 11% C5542 1-164-182-11 CERAMIC CHIP 0.003μF 10% 50V C6532 1-135-998-21 FILM 56000pF 3% 800V C5543 1-137-194-81 FILM 0.47μF 5% 50V C6544 1-107-855-12 ELECT(BLOCK) 330μF 160V C5550 1-129-716-00 FILM 0.015μF 5% 200V C6545 1-126-943-11 ELECT 220μF 20% 25V C5576 1-104-666-11 ELECT 220μF 20% 25V C6546 1-128-544-11 EL	C5514	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	1		1-126-963-11		4.7µF	20%	
C5522 1-163-275-11 CERAMIC CHIP 0.001µF 5% 50V C6525 1-164-143-11 CERAMIC 0.001µF 10% 1KV C5531 1-136-165-00 FILM 0.1µF 5% 50V C6526 1-164-143-11 CERAMIC 0.001µF 10% 1KV C6542 1-164-182-11 CERAMIC CHIP 0.003µF 10% 50V C6526 1-164-143-11 CERAMIC 0.001µF 10% 1KV C5548 1-137-194-81 FILM 0.47µF 5% 50V C6544 1-107-855-12 ELECT(BLOCK) 330µF 160V C5550 1-129-716-00 FILM 0.015µF 5% 200V C6544 1-107-855-12 ELECT(BLOCK) 330µF 160V C5550 1-126-943-11 ELECT 220µF 20% 25V C5576 1-104-666-11 ELECT 220µF 20% 25V C6546 1-128-548-11 ELECT 470µF 20% 25V C5577 1-104-666-11 ELECT 220µF 20% 25V C6547 1-113-610-11 ELECT(BLOCK) 220µF 20% 25V C5588 1-136-153-00 FILM 0.01µF 5% 50V C6548 1-128-549-11 ELECT 3300µF 20% 35V C5588 1-136-153-00 FILM 0.01µF 5% 50V C6551 1-163-263-11 CERAMIC CHIP 0.1µF 5% 50V C6551 1-163-96-11 ELECT 1µF 20% 50V C5590 1-163-263-11 CERAMIC CHIP 0.1µF 10% 50V C6581 1-126-960-11 ELECT 1µF 20% 50V C5594 1-136-165-00 FILM 0.1µF 5% 50V C6586 1-1138-344-11 MYLAR 0.047µF 20% 125V C5598 1-104-660-91 ELECT 47µF 20% 16V C6588 1-113-924-11 CERAMIC 0.0047µF 20% 125V C5598 1-104-660-91 ELECT 47µF 20% 16V C6588 1-113-924-11 CERAMIC 0.0047µF 20% 125V C5600 1-104-660-91 ELECT 47µF 20% 16V C6588 1-113-924-11 CERAMIC 0.0047µF 20% 125V C5601 1-136-165-00 FILM 0.1µF 5% 50V C6588 1-113-924-11 CERAMIC 0.0047µF 20% 125V C5601 1-136-165-00 FILM 0.1µF 5% 50V C6588 1-113-924-11 CERAMIC 0.0047µF 20% 125V C5601 1-136-165-00 FILM 0.1µF 5% 50V C6588 1-113-924-11 CERAMIC 0.0047µF 20% 125V C5601 1-136-165-00 FILM 0.1µF 5% 50V C6588 1-113-924-11 CERAMIC 0.0047µF 20% 125V C5601 1-136-165-00 FILM 0.1µF 5% 50V C6588 1-113-924-11 CERAMIC 0.0047µF 20% 125V C5601 1-136-165-00 FILM 0.1µF 5% 50V C6589 1-113-924-11 CERAMIC 0.0047µF 20% 125V C5601 1-136-165-00 FILM 0.1µF 5% 50V C6589 1-113-924-11 CERAMIC 0.0047µF 20% 125V C5601 1-136-165-00 FILM 0.1µF 5% 50V C6589 1-139-99-51 CERAMIC 0.0047µF 20% 125V C5601 1-136-165-00 FILM 0.1µF 5% 50V C6589 1-139-99-51 CERAMIC 0.0047µF 20% 125V C5601 1-136-165-00 FILM 0.1µF 5% 50V C6589 1-139-99-51 CERAMIC 0.0047µF 2	C5518	1-129-709-61	FILM	0.0039µF	5%	630V			1-136-479-11		0.001µF		
C5531 1-136-165-00 FILM 0.1µF 5% 50V C6526 1-164-143-11 CERAMIC 0.001µF 10% 1KV C5542 1-164-182-11 CERAMIC CHIP 0.0033µF 10% 50V C6542 1-135-988-21 FILM 56000pF 3% 800V C5548 1-137-194-81 FILM 0.47µF 5% 50V C6544 1-107-855-12 ELECT(BLOCK) 330µF 160V C5550 1-129-716-00 FILM 0.015µF 5% 200V C6545 1-126-943-11 ELECT 220µF 20% 25V C5576 1-104-666-11 ELECT 220µF 20% 25V C6546 1-128-548-11 ELECT 4700µF 20% 25V C5577 1-104-666-11 ELECT 220µF 20% 25V C6547 1-113-610-11 ELECT 3300µF 20% 25V C5587 1-104-760-11 CERAMIC CHIP 0.047µF 10% 50V C6548 1-128-549-11 ELECT 3300µF 20% 25V C5588 1-136-153-00 FILM 0.011µF 5% 50V C6561 1-163-037-11 CERAMIC CHIP 0.022µF 10% 50V C5590 1-163-263-11 CERAMIC CHIP 0.1µF 10% 50V C5592 1-115-339-11 CERAMIC CHIP 0.1µF 10% 50V C5594 1-136-165-00 FILM 0.1µF 5% 50V C5596 1-126-960-11 ELECT 1µF 20% 50V C5596 1-126-960-11 ELECT 1µF 20% 50V C5598 1-104-660-91 ELECT 47µF 20% 16V C6588 1-113-924-11 CERAMIC .0047µF 20% 125V C5598 1-104-660-91 ELECT 47µF 20% 16V C6589 1-113-924-11 CERAMIC .0047µF 20% 125V C5602 1-104-660-91 ELECT 47µF 20% 16V C6590 1-131-940-11 ELECT .0047µF 20% 125V C5603 1-163-017-00 CERAMIC CHIP .0047µF 10% 50V C5603 1-163-017-00 CERAMIC CHIP .0047µF 20% 16V C6590 1-131-940-11 ELECT .0047µF 20% 125V C5603 1-163-017-00 CERAMIC CHIP .0047µF 10% 50V C5603 1-163-017-00 CERAMIC CHIP .0047µF 20% 16V C6590 1-131-940-11 ELECT .0047µF 20% 125V C5603 1-163-017-00 CERAMIC CHIP .0047µF 10% 50V	C5519	1-104-760-11	CERAMIC CHIP	0.047µF	10%	50V			1-126-964-11	ELECT	10μF	20%	
C5542 1-164-182-11 CERAMIC CHIP 0.0033µF 10% 50V C6532 1-135-998-21 FILM 56000pF 3% 800V C5548 1-137-194-81 FILM 0.47µF 5% 50V C6544 1-107-855-12 ELECT(BLOCK) 330µF 160V C5550 1-129-716-00 FILM 0.015µF 5% 200V C6545 1-126-943-11 ELECT 2200µF 20% 25V C5576 1-104-666-11 ELECT 220µF 20% 25V C6546 1-128-548-11 ELECT 4700µF 20% 25V C5577 1-104-666-11 ELECT 220µF 20% 25V C6547 1-113-610-11 ELECT(BLOCK) 220µF 20% 25V C6547 1-113-610-11 ELECT(BLOCK) 220µF 20% 25V C6587 1-104-760-11 CERAMIC CHIP 0.047µF 10% 50V C6547 1-113-610-11 ELECT 3300µF 20% 35V C5588 1-136-153-00 FILM 0.01µF 5% 50V C6551 1-163-037-11 CERAMIC CHIP 0.022µF 10% 50V C5590 1-163-263-11 CERAMIC CHIP 330pF 5% 50V C6561 1-126-960-11 ELECT 1µF 20% 50V C5592 1-115-339-11 CERAMIC CHIP 0.1µF 10% 50V C6584 1-136-344-11 MYLAR 0.047µF 20% 125V C5594 1-136-960-11 ELECT 1µF 20% 50V C6588 1-136-344-11 MYLAR 0.047µF 20% 125V C5598 1-146-60-91 ELECT 47µF 20% 16V C6587 1-113-924-11 CERAMIC 0.0047µF 20% 125V C5598 1-104-660-91 ELECT 47µF 20% 16V C6588 1-113-924-11 CERAMIC 0.0047µF 20% 125V C5602 1-104-660-91 ELECT 47µF 20% 16V C6588 1-113-924-11 CERAMIC 0.0047µF 20% 125V C5602 1-104-660-91 ELECT 47µF 20% 16V C6590 1-131-940-11 ELECT 120µF 20% 125V C5602 1-104-660-91 ELECT 47µF 20% 16V C6590 1-131-940-11 ELECT 120µF 20% 125V C5602 1-104-660-91 ELECT 47µF 20% 16V C6590 1-131-940-11 ELECT 120µF 20% 125V C5602 1-104-660-91 ELECT 47µF 20% 16V C6590 1-131-940-11 ELECT 120µF 20% 125V C5602 1-104-660-91 ELECT 47µF 20% 16V C6590 1-131-940-11 ELECT 120µF 20% 125V C5602 1-104-660-91 ELECT 47µF 20% 16V C6590 1-131-940-11 ELECT 120µF 20% 250V	C5522	1-163-275-11	CERAMIC CHIP	0.001µF	5%	50V			1-164-143-11	CERAMIC	0.001µF	10%	
C5548 1-137-194-81 FILM 0.47μF 5% 50V C6544 1-107-855-12 ELECT(BLOCK) 330μF 160V C5550 1-129-716-00 FILM 0.015μF 5% 200V C6545 1-126-943-11 ELECT 220μF 20% 25V C5576 1-104-666-11 ELECT 220μF 20% 25V C6546 1-128-548-11 ELECT 470μF 20% 25V C5577 1-104-666-11 ELECT 220μF 20% 25V C6547 1-113-610-11 ELECT 470μF 20% 25V C5587 1-104-760-11 CERAMIC CHIP 0.047μF 10% 50V C6548 1-128-549-11 ELECT 3300μF 20% 25V C5588 1-136-153-00 FILM 0.01μF 5% 50V C6551 1-163-037-11 CERAMIC CHIP 0.02μF 50V C5590 1-163-263-11 CERAMIC CHIP 0.1μF 50V C6581 1-126-960-11 ELECT 1μF 20%	C5531	1-136-165-00	FILM	0.1µF	5%	50V	C65	26	1-164-143-11	CERAMIC	0.001µF	10%	1KV
C5548 1-137-194-81 FILM 0.47μF 5% 50V C6544 1-107-855-12 ELECT(BLOCK) 330μF 160V C5550 1-129-716-00 FILM 0.015μF 5% 200V C6545 1-126-943-11 ELECT 220μF 20% 25V C6546 1-128-548-11 ELECT 220μF 20% 25V C6546 1-128-548-11 ELECT 4700μF 20% 25V C5577 1-104-666-11 ELECT 220μF 20% 25V C6547 1-113-610-11 ELECT 4700μF 20% 25V C5587 1-104-760-11 CERAMIC CHIP 0.047μF 10% 50V C6548 1-128-549-11 ELECT 3300μF 20% 25V C5588 1-136-153-00 FILM 0.01μF 5% 50V C6551 1-163-037-11 CERAMIC CHIP 0.02μF 50V C6561 1-126-960-11 ELECT 1μF 20% 50V C6561 1-126-960-11 ELECT 1μF 20% 50V	C5542	1-164-182-11	CERAMIC CHIP	0.0033µF	10%	50V	C65	32	1-135-998-21	FILM	56000pF	3%	800V
C5576 1-104-666-11 ELECT 220μF 20% 25V C6546 1-128-548-11 ELECT 4700μF 20% 25V C5577 1-104-666-11 ELECT 220μF 20% 25V C6547 1-113-610-11 ELECT 4700μF 20% 25V C5587 1-104-760-11 CERAMIC CHIP 0.047μF 10% 50V C6548 1-128-549-11 ELECT 3300μF 20% 25V C5588 1-136-153-00 FILM 0.01μF 5% 50V C6551 1-163-037-11 CERAMIC CHIP 0.022μF 10% 50V C5590 1-163-263-11 CERAMIC CHIP 0.1μF 10% 50V C6561 1-126-960-11 ELECT 1μF 20% 50V C5592 1-115-339-11 CERAMIC CHIP 0.1μF 5% 50V C6584 1-136-344-11 MYLAR 0.047μF 20% 125V C5594 1-136-165-00 FILM 0.1μF 5% 50V C6586 1-113-942-11	C5548	1-137-194-81	FILM	0.47µF	5%	50V	C65	44	1-107-855-12	ELECT(BLOCK)	330µF		160V
C5577 1-104-666-11 ELECT 220μF 20% 25V C6547 1-113-610-11 ELECT(BLOCK) 220μF 20% 250V C5587 1-104-760-11 CERAMIC CHIP 0.047μF 10% 50V C6548 1-128-549-11 ELECT 3300μF 20% 35V C5588 1-136-153-00 FILM 0.01μF 5% 50V C6551 1-163-037-11 CERAMIC CHIP 0.022μF 10% 50V C5590 1-163-263-11 CERAMIC CHIP 330pF 5% 50V C6561 1-126-960-11 ELECT 1μF 20% 50V C5592 1-115-339-11 CERAMIC CHIP 0.1μF 10% 50V Δ C6584 1-136-344-11 MYLAR 0.047μF 20% 125V C5594 1-136-165-00 FILM 0.1μF 5% 50V C6585 1-113-989-51 CERAMIC 1000pF 10% 250V C5598 1-104-660-91 ELECT 47μF 20% 16V C6587	C5550	1-129-716-00	FILM	0.015µF	5%	200V	C65	45	1-126-943-11	ELECT	2200µF	20%	25V
C5577 1-104-666-11 ELECT 220μF 20% 25V C6547 1-113-610-11 ELECT(BLOCK) 220μF 20% 250V C5587 1-104-760-11 CERAMIC CHIP 0.047μF 10% 50V C6558 1-136-153-00 FILM 0.01μF 5% 50V C6551 1-163-037-11 CERAMIC CHIP 0.022μF 10% 50V C6590 1-163-263-11 CERAMIC CHIP 330pF 5% 50V C6561 1-126-960-11 ELECT 1μF 20% 50V C5592 1-115-339-11 CERAMIC CHIP 0.1μF 10% 50V C5594 1-136-165-00 FILM 0.1μF 5% 50V C6585 1-119-899-51 CERAMIC 1000pF 10% 250V C5598 1-104-660-91 ELECT 1μF 20% 16V C6587 1-113-924-11 CERAMIC .0047μF 20% 125V C5600 1-104-660-91 ELECT 47μF 20% 16V C6588 1-113-924-11 CERAMIC .0047μF 20% 125V C5601 1-136-165-00 FILM 0.1μF 5% 50V C6588 1-113-924-11 CERAMIC .0047μF 20% 125V C5601 1-136-165-00 FILM 0.1μF 5% 50V C6588 1-113-924-11 CERAMIC .0047μF 20% 125V C5601 1-136-165-00 FILM 0.1μF 5% 50V C6588 1-113-924-11 CERAMIC .0047μF 20% 125V C5601 1-136-165-00 FILM 0.1μF 5% 50V C6589 1-113-924-11 CERAMIC .0047μF 20% 125V C5601 1-136-165-00 FILM 0.1μF 5% 50V C6589 1-113-924-11 CERAMIC .0047μF 20% 125V C5601 1-136-165-00 FILM 0.1μF 5% 50V C6589 1-113-924-11 CERAMIC .0047μF 20% 125V C5601 1-104-660-91 ELECT 47μF 20% 16V C6590 1-131-940-11 ELECT 1200μF 20% 250V C5602 1-104-660-91 ELECT 47μF 20% 16V C6590 1-131-940-11 ELECT 1200μF 20% 250V	C5576	1-104-666-11	ELECT	220µF	20%	25V	C65	46	1-128-548-11	ELECT	4700µF	20%	25V
C5588 1-136-153-00 FILM 0.01μF 5% 50V C6551 1-163-037-11 CERAMIC CHIP 0.022μF 10% 50V C5590 1-163-263-11 CERAMIC CHIP 330pF 5% 50V C6561 1-126-960-11 ELECT 1μF 20% 50V C5592 1-115-339-11 CERAMIC CHIP 0.1μF 10% 50V €6584 1-136-344-11 MYLAR 0.047μF 20% 125V C5594 1-136-165-00 FILM 0.1μF 5% 50V €6585 1-119-899-51 CERAMIC 1000pF 10% 250V C5596 1-126-960-11 ELECT 1μF 20% 50V €6586 1-113-924-11 CERAMIC 1000pF 10% 250V C5598 1-104-660-91 ELECT 47μF 20% 16V €6587 1-113-924-11 CERAMIC .0047μF 20% 125V C5601 1-136-165-00 FILM 0.1μF 5% 50V €6588 1-113-924-11	C5577	1-104-666-11	ELECT	-	20%	25V	C65	47	1-113-610-11	ELECT(BLOCK)	220µF	20%	250V
C5588 1-136-153-00 FILM 0.01μF 5% 50V C6551 1-163-037-11 CERAMIC CHIP 0.022μF 10% 50V C5590 1-163-263-11 CERAMIC CHIP 330pF 5% 50V C6561 1-126-960-11 ELECT 1μF 20% 50V C5592 1-115-339-11 CERAMIC CHIP 0.1μF 10% 50V €6584 1-136-344-11 MYLAR 0.047μF 20% 125V C5594 1-136-165-00 FILM 0.1μF 5% 50V €6585 1-119-899-51 CERAMIC 1000pF 10% 250V C5596 1-126-960-11 ELECT 1μF 20% 50V €6586 1-113-924-11 CERAMIC 1000pF 10% 250V C5598 1-104-660-91 ELECT 47μF 20% 16V €6587 1-113-924-11 CERAMIC .0047μF 20% 125V C5601 1-136-165-00 FILM 0.1μF 5% 50V €6588 1-113-924-11	C5587	1-104-760-11	CERAMIC CHIP	0 047uF	10%	50V	C65	48	1-128-549-11	ELECT	3300uF	20%	35V
C5590 1-163-263-11 CERAMIC CHIP 330pF 5% 50V C5592 1-115-339-11 CERAMIC CHIP 0.1μF 10% 50V							1				-		
C5592 1-115-339-11 CERAMIC CHIP 0.1μF 10% 50V				-			1						
C5594 1-136-165-00 FILM 0.1μF 5% 50V				-									
C5598 1-104-660-91 ELECT 47μF 20% 16V C6587 1-113-924-11 CERAMIC .0047μF 20% 125V C5600 1-104-660-91 ELECT 47μF 20% 16V C6588 1-113-924-11 CERAMIC .0047μF 20% 125V C5601 1-136-165-00 FILM 0.1μF 5% 50V C6589 1-113-924-11 CERAMIC .0047μF 20% 125V C5602 1-104-660-91 ELECT 47μF 20% 16V C6590 1-131-940-11 ELECT 1200μF 20% 250V C5603 1-163-017-00 CERAMIC CHIP .0047μF 10% 50V				-							-		
C5598 1-104-660-91 ELECT 47μF 20% 16V C6587 1-113-924-11 CERAMIC .0047μF 20% 125V C5600 1-104-660-91 ELECT 47μF 20% 16V C6588 1-113-924-11 CERAMIC .0047μF 20% 125V C5601 1-136-165-00 FILM 0.1μF 5% 50V C6589 1-113-924-11 CERAMIC .0047μF 20% 125V C5602 1-104-660-91 ELECT 47μF 20% 16V C6590 1-131-940-11 ELECT 1200μF 20% 250V C5603 1-163-017-00 CERAMIC CHIP .0047μF 10% 50V	C5506	1_126_060_11	ELECT	111E	200/	50\/	CAS	86	1-113-924-11	CERAMIC	0047uF	20%	125\/
C5600 1-104-660-91 ELECT 47μF 20% 16V C6588 1-113-924-11 CERAMIC .0047μF 20% 125V C5601 1-136-165-00 FILM 0.1μF 5% 50V C6589 1-113-924-11 CERAMIC .0047μF 20% 125V C5602 1-104-660-91 ELECT 47μF 20% 16V C6590 1-131-940-11 ELECT 1200μF 20% 250V C5603 1-163-017-00 CERAMIC CHIP .0047μF 10% 50V Δ C6591 1-119-899-51 CERAMIC 1000pF 10% 250V							1						
C5601 1-136-165-00 FILM 0.1μF 5% 50V C6589 1-113-924-11 CERAMIC .0047μF 20% 125V C5602 1-104-660-91 ELECT 47μF 20% 16V C6590 1-131-940-11 ELECT 1200μF 20% 250V C5603 1-163-017-00 CERAMIC CHIP .0047μF 10% 50V Δ C6591 1-119-899-51 CERAMIC 1000pF 10% 250V							1						
C5602 1-104-660-91 ELECT 47μF 20% 16V C6590 1-131-940-11 ELECT 1200μF 20% 250V C5603 1-163-017-00 CERAMIC CHIP .0047μF 10% 50V Δ C6591 1-119-899-51 CERAMIC 1000pF 10% 250V				-			1						
C5603 1-163-017-00 CERAMIC CHIP .0047μF 10% 50V				-			1						
	C300Z	1-10 4- 000-91	CLEUI	4/µr	20%	101			1-101-040-11	LLLUI	1200μ1	20 /0	200 V
C5605 1-136-177-00 FILM 1µF 5% 50V C6594 1-164-004-11 CERAMIC CHIP 0.1µF 10% 25V							1				-		
C5607 1-115-185-11 CERAMIC CHIP 0.033µF 10% 50V C6595 1-104-665-11 ELECT 100µF 20% 25V											-		
C5609 1-104-665-11 ELECT 100µF 20% 25V C6596 1-126-960-11 ELECT 1µF 20% 50V				-			1						
C5610 1-126-935-11 ELECT 470μF 20% 16V C8002 1-136-169-00 FILM 0.22μF 5% 50V	C5610	1-126-935-11	ELECT	470µF	20%	16V	C80	02	1-136-169-00	FILM	0.22µF	5%	50V



REF.NO.	PART NO.	DESCRIPTION	VALUES	3			REF.NO.	PART NO.	DESCRIPTION	VALUI	ES	
C8004	1-104-665-11	ELECT	100µF	20%	10V							
C8005	1-104-664-11	ELECT	47μF	20%	25V		C8059	1-104-664-11	ELECT	47µF	20%	10V
C8006	1-126-960-11	ELECT	1μF	20%	50V		C8060	1-107-635-11	ELECT	4.7μF	20%	160V
C8007	1-120-300-11	MYLAR	0.01µF	5%	50V		C8063	1-136-203-11	MYLAR	4.7μ1 0.01μF	10%	630V
C8007	1-137-130-11	ELECT	0.01μ1 10μF	20%	50V		00003	1-130-203-11	WILCAN	υ.υ ιμι	10 /0	030 V
C0009	1-120-904-11	ELECT	τυμι	20 /0	30 V			CONNECTOR				
C8011	1-126-961-11	ELECT	2.2µF	20%	50V			CONNECTOR				
C8012	1-126-966-11	ELECT	33µF	20%	50V	*	CN5002	1-580-798-11	CONNECTOR PIN (DY)	6P	
C8013	1-126-964-11	ELECT	10μF	20%	50V	*	CN5003	1-766-242-11	PIN, CONNECTOR (PC	BOARD)	4P	
C8014	1-126-964-11	ELECT	10μF	20%	50V	*	CN5501	1-779-889-11	CONNECTOR, BOARD	TO BOARD	8P	
C8015	1-126-966-11	ELECT	33µF	20%	50V	*	CN5503	1-779-890-11	CONNECTOR, BOARD	TO BOARD	10P	
00010	1 120 300 11	LLLOT	σομι	2070	001	*	CN5505	1-779-890-11	CONNECTOR, BOARD			
C8016	1-130-495-00	MYLAR	0.1µF	5%	50V							
C8017	1-126-964-11	ELECT	10μF	20%	50V		CN5506	1-573-979-21	CONNECTOR, BOARD	TO BOARD) 11P	
C8018	1-126-964-11	ELECT	10μF	20%	50V	*	CN5509	1-564-515-11	PLUG, CONNECTOR		12P	
C8019	1-104-665-11	ELECT	100µF	20%	10V	*	CN5510	1-564-506-11	PLUG, CONNECTOR		3P	
00010	1 101 000 11	LLLOT	ισομι	2070	101	*	CN6501	1-766-176-11	PIN, CONNECTOR (PC	BOARD)	6P	
C8020	1-136-103-00	FILM	0.1µF	5%	200V	*	CN6502	1-766-240-11	PIN, CONNECTOR (PC	BOARD)	2P	
C8021	1-137-150-11	MYLAR	0.01µF	5%	50V					•		
C8022	1-126-933-11	ELECT	100μF	20%	16V	*	CN6503	1-564-511-11	PLUG, CONNECTOR		8P	
C8023	1-113-611-11	ELECT(BLOCK)	820μF	20%	250V	*	CN6504	1-779-889-11	CONNECTOR, BOARD	TO BOARE	8P	
C8024	1-113-011-11	ELECT	47μF	20%	50V	*	CN6505	1-779-889-11	CONNECTOR, BOARD			
00024	1-120-307-11	LLLOT	τ/μι	2070	30 V	*	CN6506	1-779-889-11	CONNECTOR, BOARD			
C8025	1-104-664-11	ELECT	47µF	20%	25V							
C8027	1-130-495-00	MYLAR	0.1µF	5%	50V			DIODE				
C8028	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V							
C8030	1-163-809-11	CERAMIC CHIP	0.047µF	10%	25V		D5001	8-719-109-85	DIODE MTZJ-T-77-5.1E	3		
C8031	1-128-551-11	ELECT	22μF	20%	25V		D5002	8-719-908-03	DIODE GP08DPKG23			
							D5003	8-719-920-67	DIODE ERC91-02E			
C8032	1-136-813-11	FILM	680pF	2%	50V		D5004	8-719-158-49	DIODE UDZ-TE-17-12E	3		
C8033	1-126-964-11	ELECT	10μF	20%	50V		D5005	8-719-404-50	DIODE MA111-TX			
C8035	1-125-969-91	CERAMIC	680pF	10%	1KV							
C8036	1-125-969-91	CERAMIC	680pF	10%	1KV		D5006	8-719-109-72	DIODE MTZJ-T-77-3.9E			
C8037	1-135-946-21	FILM	47000pF	3%	800V		D5007	8-719-109-50	DIODE MTZJ-T-77-2.0/	Ą		
			•				D5008	8-719-404-50	DIODE MA111-TX			
C8039	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V		D5009	8-719-404-50	DIODE MA111-TX			
C8040	1-126-969-11	ELECT	220µF	20%	50V		D5010	8-719-404-50	DIODE MA111-TX			
C8041	1-137-194-81	FILM	0.47µF	5%	50V							
C8042	1-136-103-00	FILM	0.1µF	5%	200V		D5011	8-719-109-63	DIODE MTZJ-T-77-3.0E			
C8045	1-130-471-00	MYLAR	0.001µF	5%	50V		D5012	8-719-018-82	DIODE RGP02-20EL-6			
			•				D5013	8-719-302-43	DIODE RGP10GPKG23	3		
C8046	1-162-131-11	CERAMIC	220pF	10%	2KV		D5014	8-719-510-37	DIODE D5LC20U			
C8047	1-107-444-11	CERAMIC	100pF	10%	2KV		D5015	8-719-302-43	DIODE RGP10GPKG23	3		
C8048	1-130-495-00	MYLAR	0.1µF	5%	50V							
C8050	1-129-718-61	FILM	0.022µF	5%	630V		D5016	8-719-920-67	DIODE ERC91-02E			
C8051	1-126-964-11	ELECT	10μF	20%	50V	1	D5017	8-719-920-67	DIODE ERC91-02E			
			•				D5018	8-719-110-41	DIODE MTZJ-T-77-15B			
C8053	1-162-117-00	CERAMIC	100pF	10%	500V		D5019	8-719-404-50	DIODE MA111-TX			
C8054	1-102-244-00	CERAMIC	220pF	10%	500V	1	D5021	8-719-404-50	DIODE MA111-TX			
C8055	1-136-535-61	FILM	0.0018µF	5%	630V			. =	B10BE B6 12 12 12			
C8056	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	1	D5023	8-719-061-21	DIODE PG124S15			
C8058	1-137-194-81	FILM	0.47µF	5%	50V		D5024	8-719-510-02	DIODE D1NS4-TR			



REF.NO.	PART NO.	DESCRIPTION	VALUES		REF.NO.	PART NO.	DESCRIPTION	VALUES
D5025	8-719-510-02	DIODE D1NS4-TR			D8014	8-719-302-43	DIODE RGP10GPKG23	
D5026	8-719-404-50	DIODE MA111-TX			D8016	8-719-948-45	DIODE ERA22-08TP3	
D5027	8-719-404-50	DIODE MA111-TX			D8017	8-719-948-45	DIODE ERA22-08TP3	
D5028	8-719-404-50	DIODE MA111-TX			D8018	8-719-052-90	DIODE D1NL40-TA2	
D5029	8-719-404-50	DIODE MA111-TX		<u> </u>	D8019	8-719-110-41	DIODE MTZJ-T-77-15B	
D5031	8-719-977-28	DIODE UDZSTE-1710B			D8020	8-719-404-50	DIODE MA111-TX	
D5031	8-719-404-50	DIODE MA111-TX			D8021	8-719-404-50	DIODE MA111-TX	
D5501	8-719-404-50	DIODE MA111-TX			D8021	8-719-404-50	DIODE MA111-TX	
D5501		DIODE MA111-TX			D8025	8-719-982-26	DIODE MTZJ-T-77-33B	
	8-719-404-50							
D5503	8-719-404-50	DIODE MA111-TX			D8026	8-719-404-50	DIODE MA111-TX	
D5505	8-719-800-76	DIODE MA153-TX			D8027	8-719-404-50	DIODE MA111-TX	
D5506	8-719-404-50	DIODE MA111-TX			D8028	8-719-991-33	DIODE 1SS133T-77	
D5507	8-719-800-76	DIODE MA153-TX		<u> </u>	D8050	8-719-923-86	DIODE MTZJ-T-77-15	
D5513	8-719-991-33	DIODE 1SS133T-77		<u> </u>	D8051	8-719-923-86	DIODE MTZJ-T-77-15	
D5514	8-719-063-70	DIODE D1NL20U-TA2						
D5515	8-719-063-70	DIODE D1NL20U-TA2				FERRITE BEAD		
D5522	8-719-923-78	DIODE MTZJ-T-77-12			FB5001	1-410-397-21	FERRITE	1.1µH
D5522	8-719-923-78	DIODE MTZJ-T-77-12			FB5002	1-543-298-11	FERRITE	0μH
D6501	8-719-404-50	DIODE MA111-TX			FB6501	1-410-397-21	FERRITE	1.1µH
D6502	8-719-979-64				FB6502	1-410-396-41	FERRITE	0.45µH
D0302	0-7 19-979-04	DIODE µF4005PKG23			FB6504	1-410-397-21	FERRITE	1.1µH
D6507	1-216-295-91	SHORT						
D6508	8-719-982-27	DIODE MTZJ-T-77-33C			FB6505	1-412-911-11	FERRITE	0μΗ
D6509	8-719-068-00	DIODE ERC04-06SE			FB6506	1-412-911-11	FERRITE	0μΗ
D6510	8-719-068-00	DIODE ERC04-06SE			FB6508	1-410-396-41	FERRITE	0.45µH
D6513	8-719-500-71	DIODE D8LC40F			FB6509	1-410-396-41	FERRITE	0.45µH
					FB8001	1-410-396-41	FERRITE	0.45µH
⚠ D6514	8-719-060-89	DIODE D4SBS6-F						
D6515	8-719-060-90	DIODE S2L60F				<u>IC</u>		
D6516	8-719-060-89	DIODE D4SBS6-F			IC5001	8-759-701-01	IC NJM2904M(TE2)	
D6517	8-719-060-90	DIODE S2L60F			IC5001	8-759-700-07	IC NJM2903M-TE2	
D6522	8-719-404-50	DIODE MA111-TX			IC5002	8-759-518-68	IC PQ12RF21	
				<u>^</u>	IC5004	8-759-192-71	IC STV9379	
D6530	8-719-022-99	DIODE D6SB60L		<u>^</u>	IC5004	8-759-803-42	IC LA6500-FA	
D6531	8-719-404-50	DIODE MA111-TX		7:1	100000	0 100-000-42	IO ENOUGH A	
D6532	8-719-948-45	DIODE ERA22-08TP3			IC5006	8-749-013-76	IC PQ6RD83B	
D6533	8-719-404-50	DIODE MA111-TX			IC5000	8-759-981-61	IC NJM2901M-TE2	
D6537	8-719-404-50	DIODE MA111-TX			IC5007	8-759-675-90	IC BA51W12ST-V5	
					IC5501	6-700-149-01	IC M24C04-MN6T(A)	
D8002	8-719-404-50	DIODE MA111-TX			IC5502	8-759-981-61	IC NJM2901M-TE2	
D8003	8-719-404-50	DIODE MA111-TX			100002	3 103 001-01	IO NUMEOU IMI-I LE	
<u> </u>	8-719-109-85	DIODE MTZJ-T-77-5.1B			IC5504	8-759-803-42	IC LA6500-FA	
D8005	8-719-404-50	DIODE MA111-TX			IC5506	8-759-803-42	IC LA6500-FA	
D8006	8-719-921-89	DIODE MTZJ-T-77-13C		<u> </u>	IC5500	8-759-803-42	IC LA6500-FA	
D8007	8-719-404-50	DIODE MA111-TX			IC5511	8-752-074-64	IC CXA2026AS	
D8009	8-719-404-50	DIODE MA111-TX			IC5512	8-759-929-65	IC NJM79M12FA	
D8010	8-719-052-90	DIODE D1NL40-TA2						
⚠ D8013	8-719-063-70	DIODE D1NL20U-TA2						
	3 1 10 300 10	DIODE DIMEEUO INC		I				



	REF.NO.	PART NO.	DESCRIPTION	VALUES		REF.NO.	PART NO.	DESCRIPTION	VALUES
	IC5513	8-759-595-52	IC CXA8070AP		<u>^</u>	PH6503	8-749-924-35	PHOTO COUPLER	ON3171-R
<u>(Ì</u>	IC5514	8-759-803-42	IC LA6500-FA		Z.	PH8001	8-749-924-35	PHOTO COUPLER	ON3171-R
	IC5515	8-749-016-08	IC STK390-910			1110001	0 140 024 00	THOTO COOL LEIK	ONOTITIO
<u>^</u>	IC6501	8-759-670-30	IC MCZ3001D				IC LINK		
	IC6503	8-749-012-13	IC DM-58				IC LINK		
					<u>/</u>	PS6501	1-576-390-91	LINK, IC	
	IC6505	8-749-921-86	IC SE-140N		<u> </u>	PS6502	1-576-390-91	LINK, IC	
	IC8001	8-759-981-61	IC NJM2901M-TE2						
<u> </u>	IC8002	8-759-670-30	IC MCZ3001D				TRANSISTOR		
	IC8003	8-759-198-31	IC UPC1093J-1-T						
	IC8004	8-759-701-01	IC NJM2904M(TE2)			Q5001	8-729-422-27	TRANSISTOR 2SD601	
					Δ	Q5002	8-729-424-02	TRANSISTOR 2SB709	-1, -
		CHIP CONDUCTO	<u>OR</u>		<u></u>	Q5003	8-729-015-28	TRANSISTOR IRFI963	
	IDEAAA	1 010 005 01	OLIOPT			Q5004	8-729-019-57	TRANSISTOR 2SA120	
	JR5006	1-216-295-91	SHORT			Q5005	8-729-422-27	TRANSISTOR 2SD601	A-QRS-TX
	JR5007	1-216-295-91	SHORT			05006	0 700 400 07	TRANSISTOR 2SD601	A ODC TV
	JR5010	1-216-295-91	SHORT			Q5006 Q5007	8-729-422-27 8-729-424-02	TRANSISTOR 2SB709	
	JR6501 JR8001	1-216-295-91	SHORT SHORT			Q5007 Q5008	8-729-424-02 8-729-424-02	TRANSISTOR 2SB709	
	JKOUUI	1-216-295-91	SHOKI			Q5008 Q5011	8-729-422-27	TRANSISTOR 2SD601	
	JR8002	1-216-295-91	SHORT			Q5011	8-729-119-80	TRANSISTOR 2SC268	
	JR8003	1-216-295-91	SHORT			Q3012	0-729-119-00	TRANSISTOR 200200	OO-LIX
	JR8004	1-216-295-91	SHORT			Q5013	8-729-424-02	TRANSISTOR 2SB709	A_ORS_TX
	JR8005	1-216-295-91	SHORT			Q5013	8-729-422-27	TRANSISTOR 2SD601	
	JR8006	1-216-295-91	SHORT		<u> </u>	Q5015	8-729-119-80	TRANSISTOR 2SC268	-, -
	0110000	1 210 200 01	OHOITH		<u>^</u>	Q5016	8-729-119-80	TRANSISTOR 2SC268	
	JR8007	1-216-295-91	SHORT			Q5017	8-729-119-80	TRANSISTOR 2SC268	
	JR8050	1-216-295-91	SHORT			20011	0.20 00		
						Q5018	8-729-422-27	TRANSISTOR 2SD601	A-QRS-TX
		COIL				Q5019	8-729-422-27	TRANSISTOR 2SD601	
		OOIL				Q5020	8-729-424-02	TRANSISTOR 2SB709	A-QRS-TX
	L5001	1-406-665-11	INDUCTOR	100μH		Q5021	8-729-422-27	TRANSISTOR 2SD601	A-QRS-TX
	L5002	1-406-663-21	INDUCTOR	47μH		Q5022	8-729-424-02	TRANSISTOR 2SB709	A-QRS-TX
	L5003	1-406-892-21	INDUCTOR	4MH					
	L5004	1-412-525-31	INDUCTOR	10μH		Q5023	8-729-422-27	TRANSISTOR 2SD601	A-QRS-TX
	L5005	1-419-181-11	COIL, HORIZONTAL LI	NEARITY		Q5026	8-729-422-27	TRANSISTOR 2SD601	A-QRS-TX
						Q5027	8-729-424-02	TRANSISTOR 2SB709	A-QRS-TX
	L5504	1-406-989-21	INDUCTOR	10MH		Q5028	8-729-322-27	TRANSISTOR 2SK218	
	L5505	1-406-989-21	INDUCTOR	10MH	<u>/!\</u>	Q5030	8-729-052-71	TRANSISTOR 2SC399	97S-SONY-RA
	L5601	1-408-612-31	INDUCTOR	56µH					
	L6503	1-412-525-31	INDUCTOR	10μH		Q5031	8-729-053-24	TRANSISTOR 2SK326	
	L6504	1-412-525-31	INDUCTOR	10μH		Q5033	8-729-424-02	TRANSISTOR 2SB709	
	LCEOE	1 400 665 11	INDUCTOR	100L		Q5034	8-729-422-27	TRANSISTOR 2SD601	
	L6505 L8001	1-406-665-11 1-406-670-11	INDUCTOR	100µH		Q5035	8-729-422-27	TRANSISTOR 2SD601	
	L8002	1-419-658-11	INDUCTOR	680µH 107µH		Q5036	8-729-422-27	TRANSISTOR 2SD601	A-UKS-TX
	L8005	1-419-656-11	INDUCTOR	3.3MH		05007	0 700 400 07	TDANICIOTOD CODOCA	A ODC TV
	LUUUU	1-400-0/4-11	אטוטטעאוו	J.JIVII I		Q5037	8-729-422-27	TRANSISTOR 2SD601	
		DUOTO COURT E				Q5501	8-729-422-27	TRANSISTOR 2SD601	
		PHOTO COUPLE	<u>r</u>			Q5502	1-801-806-11	TRANSISTOR DTC144	
	PH6501	8-749-924-35	PHOTO COUPLER	ON3171-R		Q5503 Q5504	1-801-806-11 8-729-422-27	TRANSISTOR DTC144 TRANSISTOR 2SD601	
<u></u>	PH6502	8-749-924-35	PHOTO COUPLER	ON3171-R		Q0004	0-123-422-21	1 MAINOIO I UK 20100 I	ハーベルシート
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REF.NO.	PART NO.	DESCRIPTION	VALUI	ES		REF.NO.	PART NO.	DESCRIPTION	VALU	ES	
Q5505	1-801-806-11	TRANSISTOR DTC14	4EKA-T146			R5007	1-216-099-00	RES-CHIP	120K	5%	1/10W
Q5506	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX			R5008	1-216-073-91	RES-CHIP	10K	5%	1/10W
Q5507	8-729-931-45	TRANSISTOR IRF614				R5009	1-216-099-00	RES-CHIP	120K	5%	1/10W
Q5508	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX			R5011	1-216-099-00	RES-CHIP	120K	5%	1/10W
Q5509	8-729-424-02	TRANSISTOR 2SB70	9A-QRS-TX			R5012	1-208-814-91	METAL CHIP	22K	0.50%	1/10W
Q6503	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX			R5013	1-216-393-00	METAL OXIDE	2.2	5%	3W
Q6506	8-729-052-32	TRANSISTOR IRFIB7	N50A-LF31			R5014	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
Q6507	8-729-052-32	TRANSISTOR IRFIB7	N50A-LF31			R5016	1-208-832-11	METAL CHIP	120K	0.50%	1/10W
Q6520	8-729-019-57	TRANSISTOR 2SA12	08S-TP			R5017	1-208-832-11	METAL CHIP	120K	0.50%	1/10V
Q6521	8-729-423-33	TRANSISTOR 2SC33	11A-QRSTA			R5018	1-216-065-91	RES-CHIP	4.7K	5%	1/10V
Q6522	8-729-119-76	TRANSISTOR 2SA13	09A-QRSTA			R5019	1-249-429-11	CARBON	10K	5%	1/4W
Q6524	8-729-119-76	TRANSISTOR 2SA13	09A-QRSTA			R5020	1-208-800-11	METAL CHIP	5.6K	0.50%	1/10\
Q6526	8-729-424-02	TRANSISTOR 2SB70	9A-QRS-TX			R5021	1-208-826-11	METAL CHIP	68K	0.50%	1/10V
Q6527	8-729-023-22	TRANSISTOR 2SD21	14KT146			R5022	1-208-816-11	METAL CHIP	27K	0.50%	1/10V
Q6528	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX			R5023	1-216-065-91	RES-CHIP	4.7K	5%	1/10V
Q6529	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX			R5024	1-216-089-91	RES-CHIP	47K	5%	1/10V
Q6530	8-729-424-02	TRANSISTOR 2SB709	9A-QRS-TX			R5025	1-208-800-11	METAL CHIP	5.6K	0.50%	1/10\
Q6531	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX			R5026	1-216-049-11	RES-CHIP	1K	5%	1/10\
Q6532	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX			R5027	1-208-826-11	METAL CHIP	68K	0.50%	1/10
Q8001	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX			R5028	1-208-822-11	METAL CHIP	47K	0.50%	1/10\
Q8002	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX			R5029	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10
Q8003	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX			R5030	1-216-295-91	SHORT			
Q8004	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX			R5031	1-208-782-11	METAL CHIP	1K	0.50%	1/10
Q8007	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX			R5033	1-216-025-11	RES-CHIP	100	5%	1/10
Q8008	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX			R5036	1-216-085-91	RES-CHIP	33K	5%	1/10
Q8009	8-729-200-17	TRANSISTOR 2SA10	910-TPE2			R5037	1-216-057-00	RES-CHIP	2.2K	5%	1/10
Q8010	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX			R5038	1-216-075-00	RES-CHIP	12K	5%	1/10
Q8013	8-729-044-42	TRANSISTOR IRFI64	4G-LF36			R5039	1-216-065-91	RES-CHIP	4.7K	5%	1/10
Q8014	8-729-044-42	TRANSISTOR IRF164	4G-LF36			R5040	1-216-089-91	RES-CHIP	47K	5%	1/10
Q8015	8-729-119-80	TRANSISTOR 2SC26	88-LK			R5041	1-249-383-11	CARBON	1.5	5%	1/4V
Q8016	8-729-045-65	TRANSISTOR 2SA17				R5042	1-216-081-00	RES-CHIP	22K	5%	1/10
Q8018	8-729-043-95	TRANSISTOR 2SC38				R5043	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10
Q8019	1-801-806-11	TRANSISTOR DTC14	4EKA-T146			R5044	1-216-073-91	RES-CHIP	10K	5%	1/10
Q8020	8-729-422-27	TRANSISTOR 2SD60	1A-QRS-TX			R5045	1-216-073-91	RES-CHIP	10K	5%	1/10
Q8022 Q8023	8-729-424-02 8-729-422-27	TRANSISTOR 2SB709 TRANSISTOR 2SD60				R5046	1-214-798-21	METAL	1.8	1%	1/2V
		- 2. 2				R5047	1-216-057-00	RES-CHIP	2.2K	5%	1/10
	RESISTOR					R5048	1-208-802-11	METAL CHIP	6.8K	0.50%	
	KEOIOTUK					R5049	1-216-057-00	RES-CHIP	2.2K	5%	1/10
R5001	1-216-001-00	RES-CHIP	10	5%	1/10W	R5050	1-216-057-00	RES-CHIP	2.2K	5%	1/10
R5002	1-216-033-00	RES-CHIP	220	5%	1/10W	R5051	1-249-414-11	CARBON	560	5%	1/4V
R5003	1-216-073-91	RES-CHIP	10K	5%	1/10W		. =		500	- 70	
R5004	1-216-099-00	RES-CHIP	120K	5%	1/10W	R5052	1-214-796-00	METAL	1.5	1%	1/2V
R5005	1-216-033-00	RES-CHIP	220	5%	1/10W	R5053	1-215-890-11	METAL OXIDE	470	5%	2W
						R5054	1-216-057-00	RES-CHIP	2.2K	5%	1/10
						INDUOT		INEO OTHE	4.41	0 / 0	17 101



_	REF.NO.	PART NO.	DESCRIPTION	VALUE	S		 REF.NO.	PART NO.	DESCRIPTION	VALUE	S	
	R5056	1-216-105-91	RES-CHIP	220K	5%	1/10W	R5104	1-216-073-91	RES-CHIP	10K	5%	1/10W
	R5057	1-216-073-91	RES-CHIP	10K	5%	1/10W	R5105	1-216-089-91	RES-CHIP	47K	5%	1/10W
	R5058	1-216-113-00	RES-CHIP	470K	5%	1/10W	R5106	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
	R5059	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R5107	1-249-401-11	CARBON	47	5%	1/4W
							R5108	1-208-819-11	METAL CHIP	36K	0.50%	
	R5063	1-208-813-11	METAL CHIP	20K	0.50%	1/10W						
	R5064	1-218-761-11	METAL CHIP	240K	0.50%	1/10W	R5109	1-208-808-11	METAL CHIP	12K	0.50%	1/10W
	R5065	1-218-761-11	METAL CHIP	240K	0.50%		R5110	1-249-401-11	CARBON	47	5%	1/4W
	R5066	1-208-792-11	METAL CHIP	2.7K	0.50%		R5111	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
	R5067	1-208-794-11	METAL CHIP	3.3K	0.50%		R5112	1-216-033-00	RES-CHIP	220	5%	1/10W
				0.0	0.0070		R5113	1-249-425-11	CARBON	4.7K	5%	1/4W
	R5068	1-216-105-91	RES-CHIP	220K	5%	1/10W			07.11.12.01.1		0,0	
	R5069	1-216-113-00	RES-CHIP	470K	5%	1/10W	R5114	1-249-425-11	CARBON	4.7K	5%	1/4W
	R5070	1-216-113-00	RES-CHIP	470K	5%	1/10W	R5115	1-249-417-11	CARBON	1K	5%	1/4W
	R5071	1-208-810-11	METAL CHIP	15K	0.50%		R5116	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
	R5072	1-208-810-11	METAL CHIP	15K	0.50%		R5117	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
	110012	1 200 010 11		1011	0.0070		R5120	1-216-049-11	RES-CHIP	1K	5%	1/10W
	R5073	1-208-830-11	METAL CHIP	100K	0.50%	1/10W	110120	121001011	NEO OTIII	111	070	17 1011
	R5074	1-208-830-11	METAL CHIP	100K	0.50%		R5121	1-216-073-91	RES-CHIP	10K	5%	1/10W
	R5075	1-208-830-11	METAL CHIP	100K	0.50%		R5122	1-216-073-91	RES-CHIP	10K	5%	1/10W
	R5076	1-208-830-11	METAL CHIP	100K	0.50%		R5123	1-216-295-91	SHORT	TOIL	070	171000
	113070	1-200-050-11	WE TAL OTH	1001	0.0070	17 10 4 4	R5124	1-216-295-91	SHORT			
	R5077	1-208-816-11	METAL CHIP	27K	0.50%	1/10\//	110124	1-210-230-31	OHOIN			
	R5078	1-208-830-11	METAL CHIP	100K	0.50%		R5125	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
	R5079	1-208-810-11	METAL CHIP	15K	0.50%		R5126	1-216-005-91	RES-CHIP	100	5%	1/10W
	R5080	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R5127	1-215-890-11	METAL OXIDE	470	5%	2W
	R5081	1-208-830-11	METAL CHIP	100K	0.50%		R5127	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
	N3001	1-200-050-11	WE TAL CITIF	TOUR	0.50 /6	1/1000	R5129	1-216-005-91	RES-CHIP	100	5%	1/10W
	R5082	1-208-806-11	METAL CHIP	10K	0.50%	1/10\\/	N3129	1-210-025-11	NEO-CHIF	100	3 /0	1/1000
	R5082	1-208-790-11	METAL CHIP	2.2K	0.50%		R5130	1-249-401-11	CARBON	47	5%	1/4W
	R5084	1-216-073-91	RES-CHIP	10K	5%	1/10W	R5130	1-249-401-11	METAL CHIP	3.3K	0.50%	
	R5085	1-216-073-91	RES-CHIP	470K	5%	1/10W	R5131	1-206-794-11	METAL OXIDE	1.2K	5%	3W
	R5086	1-216-113-00	RES-CHIP	470K 4.7K	5% 5%	1/10W	R5132 R5133	1-216-481-11	METAL OXIDE	1.2K	5% 5%	3W
	K3000	1-210-000-91	KES-CHIP	4./K	370	1/1000	R5133	1-216-481-11	METAL OXIDE	1.2K 1.2K	5% 5%	3W
	R5087	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	N3134	1-210-401-11	WE TAL ONIDE	1.21	3 /0	344
	R5088	1-216-000-91	RES-CHIP	4.7K	5%	1/10W	R5135	1-216-481-11	METAL OXIDE	1.2K	5%	3W
	R5089					2W				1.2K	5% 5%	3W
	R5099	1-216-372-11 1-216-372-11	METAL OXIDE	1.8	5% 5%	2W	R5136 R5137	1-216-481-11	METAL OXIDE METAL OXIDE	1.2K	5% 5%	3W
<u>^</u> !\	R5090		METAL OXIDE CARBON	1.8 4.7	5%	1/4W	R5137 R5138	1-216-481-11	RES-CHIP		5% 5%	1/10W
<u> </u>	K3091	1-249-389-11	CARDON	4.7	370	1/4//		1-216-049-11		1K		
	DEOOS	1 216 040 11	DEC CUID	11/	E0/	1/10\\\	R5139	1-216-049-11	RES-CHIP	1K	5%	1/10W
	R5092	1-216-049-11	RES-CHIP	1K	5%	1/10W	DE440	4 040 057 00	DEC CLUD	0.01/	F0/	4/40\4/
	R5093	1-208-807-11	METAL CYIPE	11K	0.50%		R5140	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
\wedge	R5094	1-215-869-11	METAL OXIDE	1K	5%	1W	R5141	1-215-915-11	METAL OXIDE	470	5%	3W
<u>/!\</u>	R5095	1-249-443-11	CARBON	0.47	5%	1/4W	R5142	1-216-386-11	METAL OXIDE	0.56	5%	3W
<u> </u>	R5096	1-249-443-11	CARBON	0.47	5%	1/4W	R5143	1-216-385-11	METAL OXIDE	0.47	5%	3W
\wedge	DE007	1 040 000 44	CADDON	0.00	E0/	1/4\4/	R5144	1-216-385-11	METAL OXIDE	0.47	5%	3W
<u>/!\</u>	R5097	1-249-380-11	CARBON	0.82	5%	1/4W	DE445	4 045 000 00	METAL OVIDE	40	F0/	0147
<u> </u>	R5098	1-249-379-11	CARBON	0.68	5%	1/4W	R5145	1-215-880-00	METAL OXIDE	10	5%	2W
	R5101	1-208-798-11	METAL CHIP	4.7K	0.50%		R5146	1-216-089-91	RES-CHIP	47K	5%	1/10W
	R5102	1-208-782-11	METAL CHIP	1K	0.50%		R5147	1-208-794-11	METAL CHIP	3.3K		1/10W
	R5103	1-208-790-11	METAL CHIP	2.2K	0.50%	1/1000	R5148	1-215-865-11	METAL OXIDE	220	5%	1W
							R5149	1-216-065-91	RES-CHIP	4.7K	5%	1/10W



REF.NO.	PART NO.	DESCRIPTION	VALU	IES		REF.NO.	PART NO.	DESCRIPTION	VALU	ES	
R5150	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R5536	1-208-810-11	METAL CHIP	15K	0.50%	1/10W
R5151	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R5544	1-208-812-11	METAL CHIP	18K	0.50%	1/10W
R5152	1-216-073-91	RES-CHIP	10K	5%	1/10W	R5545	1-208-818-11	METAL CHIP	33K	0.50%	1/10W
R5153	1-216-073-91	RES-CHIP	10K	5%	1/10W	R5547	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5154	1-216-073-91	RES-CHIP	10K	5%	1/10W	R5548	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5155	1-216-081-00	RES-CHIP	22K	5%	1/10W	R5554	1-208-812-11	METAL CHIP	18K	0.50%	1/10W
R5156	1-216-089-91	RES-CHIP	47K	5%	1/10W	R5563	1-208-801-11	METAL CHIP	6.2K	0.50%	1/10W
R5157	1-216-089-91	RES-CHIP	47K	5%	1/10W	R5564	1-208-830-11	METAL CHIP	100K	0.50%	1/10W
R5158	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R5565	1-208-830-11	METAL CHIP	100K	0.50%	1/10W
R5159	1-216-025-11	RES-CHIP	100	5%	1/10W	R5573	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5160	1-216-025-11	RES-CHIP	100	5%	1/10W	R5576	1-249-395-11	CARBON	15	5%	1/4W
R5161	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R5577	1-208-836-11	METAL CHIP	180K	0.50%	1/10W
R5163	1-216-063-91	RES-CHIP	3.9K	5%	1/10W	R5578	1-208-812-11	METAL CHIP	18K	0.50%	1/10W
R5164	1-260-288-11	CARBON	0.47	5%	1/2W	R5579	1-216-113-00	RES-CHIP	470K	5%	1/10W
R5501	1-216-033-00	RES-CHIP	220	5%	1/10W	R5581	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R5502	1-216-295-91	SHORT				R5585	1-208-846-11	METAL CHIP	470K	0.50%	1/10W
R5503	1-216-017-91	RES-CHIP	47	5%	1/10W	R5588	1-216-353-00	METAL OXIDE	2.2	5%	1W
R5504	1-208-840-11	METAL CHIP	270K	0.50%	1/10W	R5599	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5505	1-208-840-11	METAL CHIP	270K	0.50%	1/10W	⚠ R5615	1-249-395-11	CARBON	15	5%	1/4W
R5506	1-216-073-91	RES-CHIP	10K	5%	1/10W	R5623	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5507	1-216-017-91	RES-CHIP	47	5%	1/10W	R5645	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5508	1-216-025-11	RES-CHIP	100	5%	1/10W	R5647	1-208-758-11	METAL CHIP	100	0.50%	
R5509	1-216-025-11	RES-CHIP	100	5%	1/10W	R5648	1-216-385-11	METAL OXIDE	0.47	5%	3W
R5510	1-216-025-11	RES-CHIP	100	5%	1/10W	R5649	1-215-886-11	METAL OXIDE	100	5%	2W
R5511	1-216-295-91	SHORT				R5650	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5512	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R5657	1-210-009-91	METAL CHIP	4.7K		1/10W
R5512	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R5666	1-216-091-00	RES-CHIP	56K	5%	1/10W
R5514	1-216-295-91	SHORT	7.71	370	17 10 00	R5669	1-210-091-00	METAL CHIP	2K		1/10W
R5516	1-208-792-11	METAL CHIP	2.7K	0.50%	1/10W	R5670	1-208-820-11	METAL CHIP	39K		1/10W
R5518	1-208-822-11	METAL CHIP	47K	0.50%	1/10W	DE670	1 216 100 00	DEC CHID	2201/	E0/	1/10W
R5519	1-208-822-11	METAL CHIP	47K		1/10W	R5672	1-216-109-00	RES-CHIP METAL CHIP	330K	5%	
R5520		METAL CHIP	27K		1/10W	R5678	1-208-804-11		8.2K		1/10W
R5521	1-208-816-11 1-216-073-91	RES-CHIP		5%	1/10W	⚠ R5679	1-249-395-11	CARBON	15	5%	1/4W
R5521	1-216-073-91	RES-CHIP	10K 10K	5% 5%	1/10W	R5680 R5684	1-249-383-11 1-208-798-11	CARBON METAL CHIP	1.5 4.7K	5% 0.50%	1/4W 1/10W
D==00	4 000 000 44	METAL OLUB	4717	0.500/	4/4014/						
R5523	1-208-822-11	METAL CHIP	47K		1/10W	R5685	1-216-655-11	METAL CHIP	1.5K		1/10W
R5525	1-208-806-11	METAL CHIP	10K		1/10W	R5686	1-208-778-11	METAL CHIP	680		1/10W
R5526	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R5688	1-208-782-11	METAL CHIP	1K		1/10W
R5527	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R5689	1-216-017-91	RES-CHIP	47	5%	1/10W
R5528	1-216-081-00	RES-CHIP	22K	5%	1/10W	R5690	1-216-017-91	RES-CHIP	47	5%	1/10W
R5529	1-216-073-91	RES-CHIP	10K	5%	1/10W	R5692	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R5530	1-216-025-11	RES-CHIP	100	5%	1/10W	R5693	1-208-798-11	METAL CHIP	4.7K		1/10W
R5531	1-216-001-00	RES-CHIP	10	5%	1/10W	R5694	1-208-798-11	METAL CHIP	4.7K		1/10W
R5532	1-216-001-00	RES-CHIP	10	5%	1/10W	R5696	1-208-804-11	METAL CHIP	8.2K		1/10W
R5535	1-208-806-11	METAL CHIP	10K	0.50%	1/10W	R5697	1-208-764-11	METAL CHIP	180	0.50%	1/10W



REF.NO.	PART NO.	DESCRIPTION	VALU	ES			REF.NO.	PART NO.	DESCRIPTION	VALU	ES	
R5698	1-208-801-11	METAL CHIP	6.2K	0.50%	1/10W		R6530	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5699	1-216-081-00	RES-CHIP	22K	5%	1/10W		R6531	1-249-393-11	CARBON	10	5%	1/4W
R5700	1-208-810-11	METAL CHIP	15K	0.50%	1/10W		R6532	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5702	1-208-782-11	METAL CHIP	1K	0.50%	1/10W		R6533	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5704	1-214-657-11	METAL	1	1%	1/4W		R6534	1-216-085-91	RES-CHIP	33K	5%	1/10W
R5705	1-214-657-11	METAL	1	1%	1/4W		R6535	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5707	1-216-017-91	RES-CHIP	47	5%	1/10W		R6536	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5708	1-216-429-00	METAL OXIDE	270	5%	1W		R6537	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5709	1-216-017-91	RES-CHIP	47	5%	1/10W		R6538	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5710	1-216-429-00	METAL OXIDE	270	5%	1W		R6539	1-215-900-11	METAL OXIDE	22K	5%	2W
R5711	1-260-288-11	CARBON	0.47	5%	1/2W		R6540	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5712	1-260-288-11	CARBON	0.47	5%	1/2W		R6541	1-216-077-91	RES-CHIP	15K	5%	1/10W
R5713	1-215-867-00	METAL OXIDE	470	5%	1W		R6542	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5714	1-216-097-11	RES-CHIP	100K	5%	1/10W		R6543	1-208-842-11	METAL CHIP	330K	0.50%	1/10W
R5715	1-216-097-11	RES-CHIP	100K	5%	1/10W		R6544	1-216-295-91	SHORT			
R5716	1-216-049-11	RES-CHIP	1K	5%	1/10W		R6547	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R5717	1-216-093-91	RES-CHIP	68K	5%	1/10W		R6550	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6501	1-208-757-11	METAL CHIP	91	0.50%	1/10W		R6552	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6502	1-260-131-11	CARBON	470K	5%	1/2W		R6553	1-216-109-00	RES-CHIP	330K	5%	1/10W
R6503	1-208-758-11	METAL CHIP	100	0.50%	1/10W		R6556	1-217-625-00	METAL	0.05	10%	2W
R6504	1-216-073-91	RES-CHIP	10K	5%	1/10W		R6557	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6506	1-249-377-11	CARBON	0.47	5%	1/4W		R6583	1-216-077-91	RES-CHIP	15K	5%	1/10W
R6507	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	<u>^</u>	R6590	1-249-415-11	CARBON	680	5%	1/4W
R6508	1-216-073-91	RES-CHIP	10K	5%	1/10W		R6591	1-216-341-11	METAL OXIDE	0.22	5%	1W
R6509	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	<u> </u>	R6593	1-249-405-11	CARBON	100	5%	1/4W
R6510	1-215-859-00	METAL OXIDE	22	5%	1W		R6596	1-215-445-00	METAL	10K	1%	1/4W
R6511	1-216-073-91	RES-CHIP	10K	5%	1/10W		R6597	1-215-469-00	METAL	100K	1%	1/4W
R6512	1-216-073-91	RES-CHIP	10K	5%	1/10W		R6598	1-216-342-21	METAL OXIDE	0.27	5%	1W
R6513	1-215-481-00	METAL	330K	1%	1/4W		R6599	1-249-417-11	CARBON	1K	5%	1/4W
R6514	1-215-481-00	METAL	330K	1%	1/4W		R6600	1-215-445-00	METAL	10K	1%	1/4W
R6515	1-260-131-11	CARBON	470K	5%	1/2W		R6602	1-216-049-11	RES-CHIP	1K	5%	1/10W
⚠ R6516	1-202-962-11	CEMENTED	3.3	5%	10W		R6603	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6517	1-208-804-11	METAL CHIP	8.2K	0.50%	1/10W		R6604	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6518	1-208-810-11	METAL CHIP	15K	0.50%	1/10W		R6605	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6519	1-216-295-91	SHORT					R6612	1-216-089-91	RES-CHIP	47K	5%	1/10W
R6521	1-260-328-11	CARBON	1K	5%	1/2W		R6614	1-260-298-51	CARBON	3.3	5%	1/2W
R6522	1-216-073-91	RES-CHIP	10K	5%	1/10W		R6646	1-215-481-00	METAL	330K	1%	1/4W
R6523	1-216-081-00	RES-CHIP	22K	5%	1/10W		R8001	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6524	1-216-295-91	SHORT					R8002	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6525	1-216-041-00	RES-CHIP	470	5%	1/10W		R8003	1-216-081-00	RES-CHIP	22K	5%	1/10W
<u> </u>	1-202-933-61	FUSIBLE	0.1	10%	1/2W		R8004	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6527	1-216-093-91	RES-CHIP	68K	5%	1/10W		R8005	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6528	1-216-025-11	RES-CHIP	100	5%	1/10W		R8006	1-216-105-91	RES-CHIP	220K	5%	1/10W
R6529	1-249-393-11	CARBON	10	5%	1/4W		R8007	1-216-089-91	RES-CHIP	47K	5%	1/10W



		DESCRIPTION	VALU	ES		_	REF.NO.	PART NO.	DESCRIPTION	VALU	ES	
R8008	1-216-081-00	RES-CHIP	22K	5%	1/10W		R8059	1-216-295-91	SHORT			
R8009	1-216-105-91	RES-CHIP	220K	5%	1/10W		R8060	1-208-774-11	METAL CHIP	470	0.50%	1/10W
R8010	1-216-105-91	RES-CHIP	220K	5%	1/10W		R8061	1-249-393-11	CARBON	10	5%	1/4W
R8011	1-216-105-91	RES-CHIP	220K	5%	1/10W	<u> </u>	R8062	1-216-073-91	RES-CHIP	10K	5%	1/10W
R8013	1-216-295-91	SHORT				\triangle	R8063	1-216-073-91	RES-CHIP	10K	5%	1/10W
R8016	1-216-061-91	RES-CHIP	3.3K	5%	1/10W		R8065	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8017	1-216-295-91	SHORT					R8066	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8018	1-216-081-00	RES-CHIP	22K	5%	1/10W		R8068	1-216-295-91	SHORT			
R8019	1-216-089-91	RES-CHIP	47K	5%	1/10W		R8069	1-249-419-11	CARBON	1.5K	5%	1/4W
R8020	1-216-081-00	RES-CHIP	22K	5%	1/10W		R8070	1-217-611-00	METAL	0.1	10%	2W
R8021	1-216-049-11	RES-CHIP	1K	5%	1/10W		R8071	1-216-073-91	RES-CHIP	10K	5%	1/10W
R8022	1-216-073-91	RES-CHIP	10K	5%	1/10W		R8072	1-208-782-11	METAL CHIP	1K	0.50%	1/10W
R8023	1-216-081-00	RES-CHIP	22K	5%	1/10W		R8073	1-208-790-11	METAL CHIP	2.2K		1/10W
R8024	1-216-073-91	RES-CHIP	10K	5%	1/10W		R8074	1-208-793-11	METAL CHIP	3K		1/10W
R8025	1-208-826-11	METAL CHIP	68K		1/10W		R8077	1-208-838-91	METAL CHIP	220K		1/10W
R8026	1-216-105-91	RES-CHIP	220K	5%	1/10W		R8078	1-208-838-91	METAL CHIP	220K	0.50%	1/10W
R8027	1-208-826-11	METAL CHIP	68K		1/10W		R8080	1-249-431-11	CARBON	15K	5%	1/4W
R8028	1-208-818-11	METAL CHIP	33K		1/10W	<u>^</u>	R8081	1-249-377-11	CARBON	0.47	5%	1/4W
R8029	1-208-826-11	METAL CHIP	68K		1/10W		R8082	1-216-133-91	RES-CHIP	3.3M	5%	1/10W
D0000	4 000 000 44	METAL CLUD	4001/	0.500/	1/10W		DOOGE	4 040 740 04	CARRON	401/	5%	1/2W
R8030	1-208-830-11	METAL CHIP	100K				R8085	1-219-749-91	CARBON	10K 47K	5% 5%	
R8031	1-208-830-11	METAL CHIP	100K		1/10W		R8086	1-219-751-91	CARBON	4/N	3%	1/2W
R8032	1-216-073-91	RES-CHIP	10K	5%	1/10W 1/10W		R8087	1-216-295-91	SHORT	471/	5%	1/10W
R8033 R8034	1-208-781-11 1-216-091-00	METAL CHIP RES-CHIP	910 56K	5%	1/10W		R8089 R8091	1-216-089-91 1-215-485-00	RES-CHIP METAL	47K 470K	5% 1%	1/10VV 1/4W
	1 210 001 00	NEO OTIII	OUIT				110001	1 210 400 00	IVIL I/ \L	47010	170	17-777
⚠ R8035	1-208-804-11	METAL CHIP	8.2K	0.50%	1/10W		R8093	1-216-101-00	RES-CHIP	150K	5%	1/10W
⚠ R8036	1-215-444-00	METAL	9.1K	1%	1/4W		R8095	1-215-485-00	METAL	470K	1%	1/4W
⚠ R8037	1-215-444-00	METAL	9.1K	1%	1/4W		R8096	1-216-295-91	SHORT			
⚠ R8038	1-215-444-00	METAL	9.1K	1%	1/4W		R8098	1-249-441-11	CARBON	100K	5%	1/4W
⚠ R8039	1-215-444-00	METAL	9.1K	1%	1/4W		R8099	1-249-441-11	CARBON	100K	5%	1/4W
⚠ R8040	1-215-444-00	METAL	9.1K	1%	1/4W		R8100	1-249-441-11	CARBON	100K	5%	1/4W
R8041	1-208-782-11	METAL CHIP	1K	0.50%	1/10W		R8101	1-216-101-00	RES-CHIP	150K	5%	1/10W
R8042	1-208-806-11	METAL CHIP	10K	0.50%	1/10W		R8102	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8043	1-216-349-00	METAL OXIDE	1	5%	1W		R8103	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R8044	1-208-837-11	METAL CHIP	200K	0.50%	1/10W		R8104	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8047	1-216-097-11	RES-CHIP	100K	5%	1/10W		R8108	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8049	1-208-758-11	METAL CHIP	100		1/10W		R8109	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R8050	1-211-964-11	METAL CHIP	33		1/10W		R8111	1-215-922-11	METAL OXIDE	6.8K	5%	3W
⚠ R8051	1-220-926-11	FUSIBLE	0.47	10%	1/2W		R8112	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8053	1-208-842-11	METAL CHIP	330K		1/10W		R8113	1-216-117-00	RES-CHIP	680K	5%	1/10W
R8054	1-208-842-11	METAL CHIP	330K	0.50%	1/10W		R8114	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R8055	1-208-842-11	METAL CHIP	330K		1/10W		R8115	1-216-049-11	RES-CHIP	1K	5%	1/10W
	1-208-804-11	METAL CHIP	8.2K		1/10W		R8116	1-216-486-21	METAL OXIDE	8.2K	5%	3W
R8056	1-200-004-11			0								-
R8056 R8057	1-208-809-11	METAL CHIP	13K	0.50%	1/10W		R8117	1-216-097-11	RES-CHIP	100K	5%	1/10W

A component identified by this M symbol indicates that it has been carefully factory-selected to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.



REF.NO.	PART NO.	DESCRIPTION	VALUES	3			REF.NO.	PART NO.	DESCRIPTION	VALUE	S	
R8119 R8123 R8124 R8125	1-216-486-21 1-216-025-11 1-216-073-91 1-216-001-00	METAL OXIDE RES-CHIP RES-CHIP	8.2K 100 10K 10	5% 5% 5% 5%	3W 1/10W 1/10W 1/10W	F	HB *	A-1372-904-A	HB (COM) BOARD,	MOUNTE	D	
R8126 R8127 R8137	1-216-001-00 1-216-295-91 1-249-417-11	RES-CHIP SHORT CARBON	10 1K	5%	1/10W		C4504 C4505	1-126-964-11 1-126-964-11	ELECT ELECT	10μF 10μF	20% 20%	50V 50V
R8144 R8145 R8146	1-216-025-11 1-216-025-11 1-216-049-11	RES-CHIP RES-CHIP RES-CHIP	100 100 1K	5% 5% 5%	1/10W 1/10W 1/10W		CN4503	CONNECTOR 1-764-334-11	PLUG,CONNECTOR	11P		
R8147 R8148 R8149 R8150 R8151	1-208-826-11 1-208-826-11 1-208-822-11 1-216-091-00 1-216-091-00	METAL CHIP METAL CHIP METAL CHIP RES-CHIP RES-CHIP	68K 68K 47K 56K 56K	0.50%	1/10W 1/10W 1/10W 1/10W 1/10W		D4503 D4505 D4506	DIODE 8-719-977-28 8-719-977-28 8-719-977-28	DIODE UDZSTE-1710B DIODE UDZSTE-1710B DIODE UDZSTE-1710B			
R8152 R8199	1-216-091-00 1-249-389-11	RES-CHIP CARBON	56K 4.7	5% 5%	1/10W 1/4W			FILTER 1-239-583-21	FILTER, EMI			
⚠ RV8001	VARIABLE RESIS 1-225-630-91 1-225-627-91	RES, VAR, ADJ, CERMI RES, VAR, ADJ, CERMI		20K 2K			FL4501 FL4502 FL4503	1-239-583-21 1-239-583-21	FILTER, EMI FILTER, EMI			
	RELAY 1-755-395-11 1-755-214-11	RELAY (AC POWER) RELAY, AC POWER					J4501	JACK 1-770-053-11 RESISTOR	TERMINAL BLOCK, S(L	IGHT ANG	LE)	
SG8002 SG8005	SPARK GAP 1-517-499-21 1-517-499-21	GAP, SPARK GAP, SPARK					R4506 R4507 R4509 R4511 R4512	1-216-113-00 1-216-113-00 1-216-049-11 1-216-295-91 1-216-295-91	RES-CHIP RES-CHIP RES-CHIP SHORT SHORT	470K 470K 1K	5% 5% 5%	1/10W 1/10W 1/10W
<u>↑</u> T5001	<u>TRANSFORMER</u> 1-435-621-11	TRANSFORMER, HORI	7ΩΝΤΔΙ Ω	II ITPI IT		F	R4513	1-216-295-91	SHORT			
T5002 ⚠ T6501 ⚠ T8001	1-435-636-11 1-435-576-12 1-453-346-11	TRANSFORMER, HORI TRANSFORMER, CON' FBT ASSY NX-6000//J1	ZONTAL D VERTER (F J4	RIVE PIT)		-	*	A-1372-970-A CAPACITOR	HA BOARD, MOUNT	ED		
T8002	1-433-934-11 THERMISTOR	TRANSFORMER, FERF	KITE (DFT)				C05	1-126-964-11	ELECT	10µF	20%	50V
TH5001 TH5002	1-800-193-00 1-807-796-11	THERMISTOR THERMISTOR					CN01	*1-564-515-11	PLUG,CONNECTOR	12P		



REF.NO.	PART NO.	DESCRIPTION	VALU	IES			REF.NO.	PART NO.	DESCRIPTION	VALU	ES	
	DIODE					-	.					
D01	8-719-074-84	DIODE LNK0120022G1					J					
D02	8-719-074-84	DIODE LNK0120022G1					*	A-1373-817-A	U (COM) BOARD, N	OUNTED		
D07	8-719-109-89	DIODE RD5.6ES-T1B2							, ,			
								CAPACITOR				
	<u>IC</u>					l .	C2405	1-126-964-11	ELECT	10µF	20%	50V
IC01	8-742-212-20	HYB IC SBX3081-71					C2405	1-126-904-11	ELECT	10μF 10μF	20%	16V
1001	0-7-42-212-20	111 0 10 000001-71					C2407	1-126-964-11	ELECT	10μF	20%	50V
	RESISTOR						C2408	1-126-791-11	ELECT	10µF	20%	16V
	REGIOTOR						C2409	1-126-964-11	ELECT	10μF	20%	50V
R03	1-249-429-11	CARBON	10K	5%	1/4W							
R05	1-247-807-31	CARBON	100	5%	1/4W		C2410	1-126-964-11	ELECT	10µF	20%	50V
R07	1-249-409-11	CARBON	220	5%	1/4W		C2411	1-126-926-11	ELECT	1000µF	20%	10V
R08	1-249-409-11	CARBON	220	5%	1/4W		C2412	1-126-964-11	ELECT	10μF	20%	50V
R09	1-249-433-11	CARBON	22K	5%	1/4W		C2413	1-126-964-11	ELECT	10μF	20%	50V
R12	1-215-445-00	METAL	10K	1%	1/4W		C2414	1-126-791-11	ELECT	10μF	20%	16V
R14	1-215-445-00	METAL	4.7K	1%	1/4VV 1/4W		C2415	1-126-964-11	ELECT	10μF	20%	50V
R15	1-215-431-00	METAL	2.7K	1%	1/4W							
R16	1-215-427-00	METAL	1.8K	1%	1/4W			CONNECTOR				
R17	1-215-425-00	METAL	1.5K	1%	1/4W	*	CN2401	1-785-303-11	CONNECTOR, DIN (PL	.UG)	64P	
R18	1-215-421-00	METAL	1K	1%	1/4W			DIODE				
R19	1-215-419-00	METAL	820	1%	1/4W		D0404		DIODE LIDZOTE 47405			
R20	1-215-415-00	METAL	560	1%	1/4W		D2401	8-719-977-28	DIODE UDZSTE-1710E			
R21	1-215-413-00	METAL	470	1%	1/4W		D2402 D2403	8-719-977-28 8-719-977-28	DIODE UDZSTE-1710E DIODE UDZSTE-1710E			
R22	1-215-413-00	METAL	470	1%	1/4W		D2405 D2405	8-719-977-28	DIODE UDZSTE-1710E			
R23	1-249-385-11	CARBON	2.2	5%	1/4W		D2406	8-719-977-28	DIODE UDZSTE-1710E			
	<u>SWITCH</u>											
S01	1-571-032-41	SWITCH PUSH (1 KEY)					D2407	8-719-977-28	DIODE UDZSTE-1710E	3		
S02	1-762-837-11	SWITCH TACTILE					D2409	8-719-977-28	DIODE UDZSTE-1710E			
S03	1-762-837-11	SWITCH TACTILE					D2410	8-719-800-76	DIODE MA153-TX			
S04	1-762-837-11	SWITCH TACTILE					D2411	8-719-977-28	DIODE UDZSTE-1710E	3		
S05	1-762-837-11	SWITCH TACTILE					D2412	8-719-800-76	DIODE MA153-TX			
S06	1-692-431-21	SWITCH TACTILE					D2413	8-719-800-76	DIODE MA153-TX			
S07	1-692-431-21	SWITCH TACTILE					D2414	8-719-800-76	DIODE MA153-TX			
S08	1-692-431-21	SWITCH TACTILE					D2415	8-719-800-76	DIODE MA153-TX			
S09	1-692-431-21	SWITCH TACTILE					D2416	8-719-800-76	DIODE MA153-TX			
S10	1-692-431-21	SWITCH TACTILE					D2423	8-719-800-76	DIODE MA153-TX			
S11	1-692-431-21	SWITCH TACTILE										
							D2424	8-719-800-76	DIODE MA153-TX			
						1	D2425	8-719-800-76	DIODE MA153-TX			
						1	D2426	8-719-800-76 8-710-800-76	DIODE MA153-TX			
						1	D2427 D2428	8-719-800-76 8-719-800-76	DIODE MA153-TX DIODE MA153-TX			
							D4740	J-1 1J-000-10	PIODE MIY 100-1V			
							D2429	8-719-977-28	DIODE UDZSTE-1710E	}		
						1	D2430	8-719-977-28	DIODE UDZSTE-1710E			
						1						



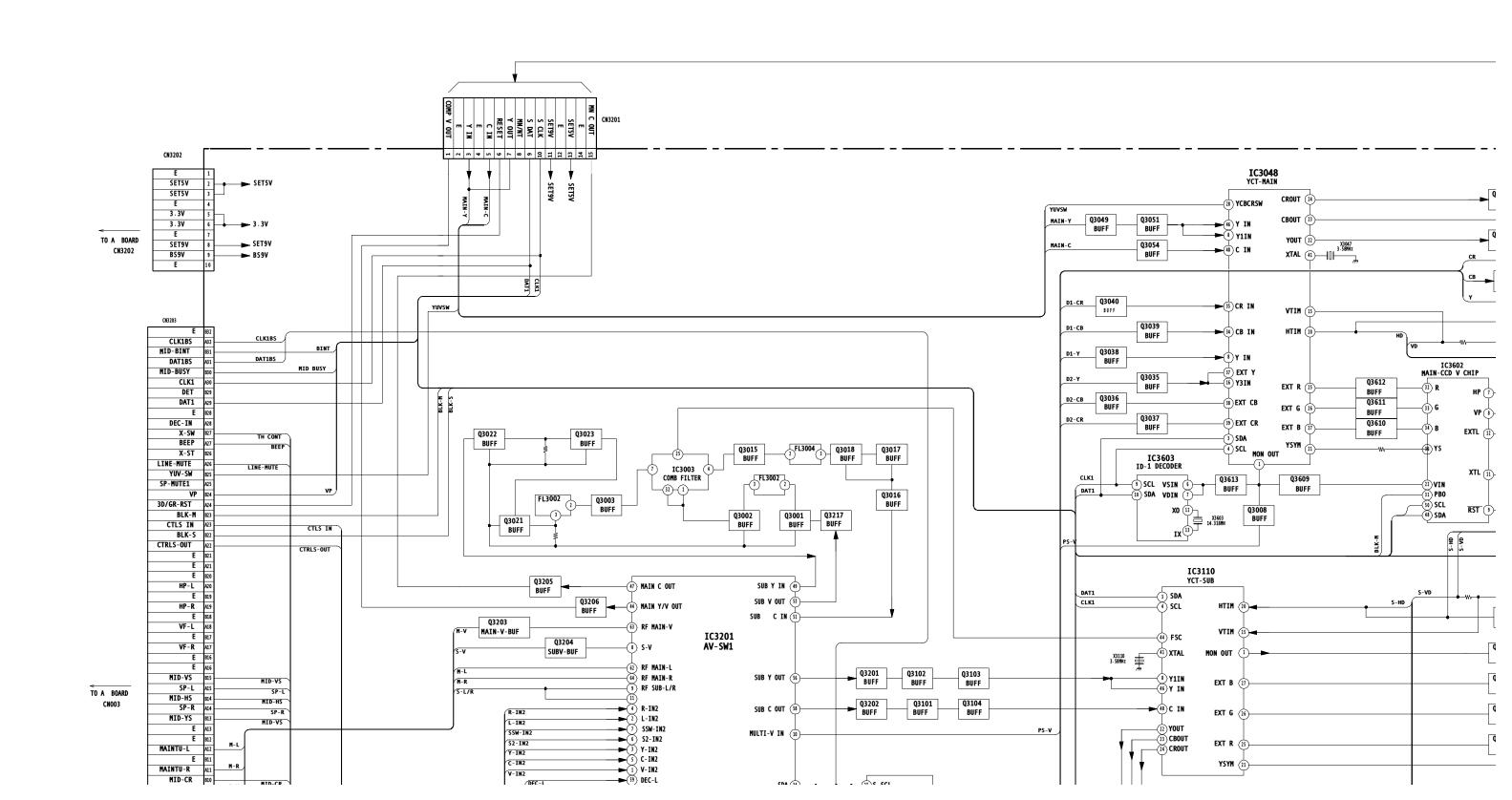
DEENO	DADT NO	DESCRIPTION	\/A1 !!=	c		DEENO	DARTNO	DESCRIPTION	\/A1 !!	Ee	
REF.NO.	PART NO.	DESCRIPTION	VALUE	<u>ა</u>		REF.NO.		DESCRIPTION	VALU		F0\/
D2431	8-719-977-28	DIODE UDZSTE-1710B				C4109	1-126-964-11	ELECT	10μF	20%	50V
D2432	8-719-977-28	DIODE UDZSTE-1710B				C4110	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
D2433	8-719-977-28	DIODE UDZSTE-1710B				C4111	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
D2434	8-719-977-28	DIODE UDZSTE-1710B				C4112	1-163-017-00	CERAMIC CHIP	.0047µF	10%	50V
						C4113	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
	<u>JACK</u>					C4114	1 162 021 01	CEDAMIC CUID	0.01	100/	E0\/
J2401	1 573 067 12	DLOCK (S) TEDMINIAL				C4114 C4115	1-163-021-91 1-163-017-00	CERAMIC CHIP CERAMIC CHIP	0.01µF .0047µF	10% 10%	50V 50V
J2401 J2402	1-573-967-12 1-750-517-11	BLOCK, (S) TERMINAL JACK BLOCK, PIN 3P				C4115 C4116	1-163-017-00	CERAMIC CHIP	.0047μF	10%	50V 50V
J2402 J2403	1-750-517-11	JACK BLOCK, PIN 3P				C4110 C4117	1-126-968-11	ELECT	.0047μΓ 100μF	20%	50V
J2405	1-764-143-11	JACK BLOOK, I IN 31				04117	1-120-900-11	LLLOI	ισομι	20 /0	30 V
J2405	1-764-143-11	JACK					CONNECTOR				
32400	1-704-145-11	JAON					CONNECTOR				
J2407	1-774-358-11	JACK BLOCK, PIN				CN4101	1-573-299-21	CONNECTOR, BOARD	TO BOAR	O 10P	
J2408	1-774-358-11	JACK BLOCK, PIN									
J2409	1-750-516-11	JACK BLOCK, PIN 2P					DIODE				
						D.4404	0.740.044.40	DIODE DANGOOK TAA	2		
	RESISTOR					D4101	8-719-914-43	DIODE DAN202K-T-14			
						D4102	8-719-914-44	DIODE DAP202K-T-146	0		
R2401	1-216-113-00	RES-CHIP	470K	5%	1/10W						
R2402	1-216-113-00	RES-CHIP	470K	5%	1/10W		<u>IC</u>				
R2403	1-216-113-00	RES-CHIP	470K	5%	1/10W	IC4101	8-759-686-15	IC NJM2180M	(TE2)		
R2407	1-216-113-00	RES-CHIP	470K	5%	1/10W	IC4102	8-759-711-10	IC NJU4066BM-T1	(/		
R2408	1-216-113-00	RES-CHIP	470K	5%	1/10W	IC4103	8-752-058-68	IC CXA1315M-T4			
R2409	1-216-113-00	RES-CHIP	470K	5%	1/10W						
R2428	1-216-113-00	RES-CHIP	470K	5%	1/10W		COIL				
R2430	1-216-113-00	RES-CHIP	470K	5%	1/10W						
R2431	1-216-113-00	RES-CHIP	470K	5%	1/10W	L4101	1-408-607-31	INDUCTOR	22µH		
R2432	1-216-113-00	RES-CHIP	470K	5%	1/10W						
TAL TOL	1210 110 00	NEO OTIII	17010	070	171011		RESISTOR				
						R4101	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R2433	1-216-113-00	RES-CHIP	470K	5%	1/10W	R4102	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R2434	1-216-021-00	RES-CHIP	68	5%	1/10W	R4103	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R2435	1-216-295-91	SHORT				R4104	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R2436	1-216-295-91	SHORT				R4105	1-216-073-91	RES-CHIP	10K	5%	1/10W
S						R4106	1-216-097-11	RES-CHIP	100K	5%	1/10W
			_			R4107	1-216-097-11	RES-CHIP	100K	5%	1/10W
*	A-1391-048-A	S BOARD, MOUNTE	D			R4108	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
						R4109	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
	CAPACITOR					R4110	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
C4101	1-126-964-11	ELECT	10µF	20%	50V			DEG 4:::-			
C4102	1-126-964-11	ELECT	10µF	20%	50V	R4111	1-216-073-91	RES-CHIP	10K	5%	1/10W
C4103	1-126-959-11	ELECT	0.47µF	20%	50V	R4112	1-216-049-11	RES-CHIP	1K	5%	1/10W
C4104	1-126-959-11	ELECT	0.47µF	20%	50V	R4113	1-216-091-00	RES-CHIP	56K	5%	1/10W
C4105	1-126-968-11	ELECT	100µF	20%	50V	R4114	1-216-295-91	SHORT			
			'			R4115	1-216-295-91	SHORT			
C4106	1-126-968-11	ELECT	100µF	20%	50V	D4416	1 216 000 01	DEC CHID	17K	5 0/	1/10\\\
C4107	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V	R4116 R4117	1-216-089-91 1-216-065-91	RES-CHIP RES-CHIP	47K 4.7K	5% 5%	1/10W 1/10W
C4108	1-126-964-11	ELECT	10µF	20%	50V	R4117 R4118	1-216-055-91	RES-CHIP	4.7K 1.8K	5% 5%	1/10W
						N 4 110	1-210-000-00	INLO-OI IIF	710.1	J /0	1/1044

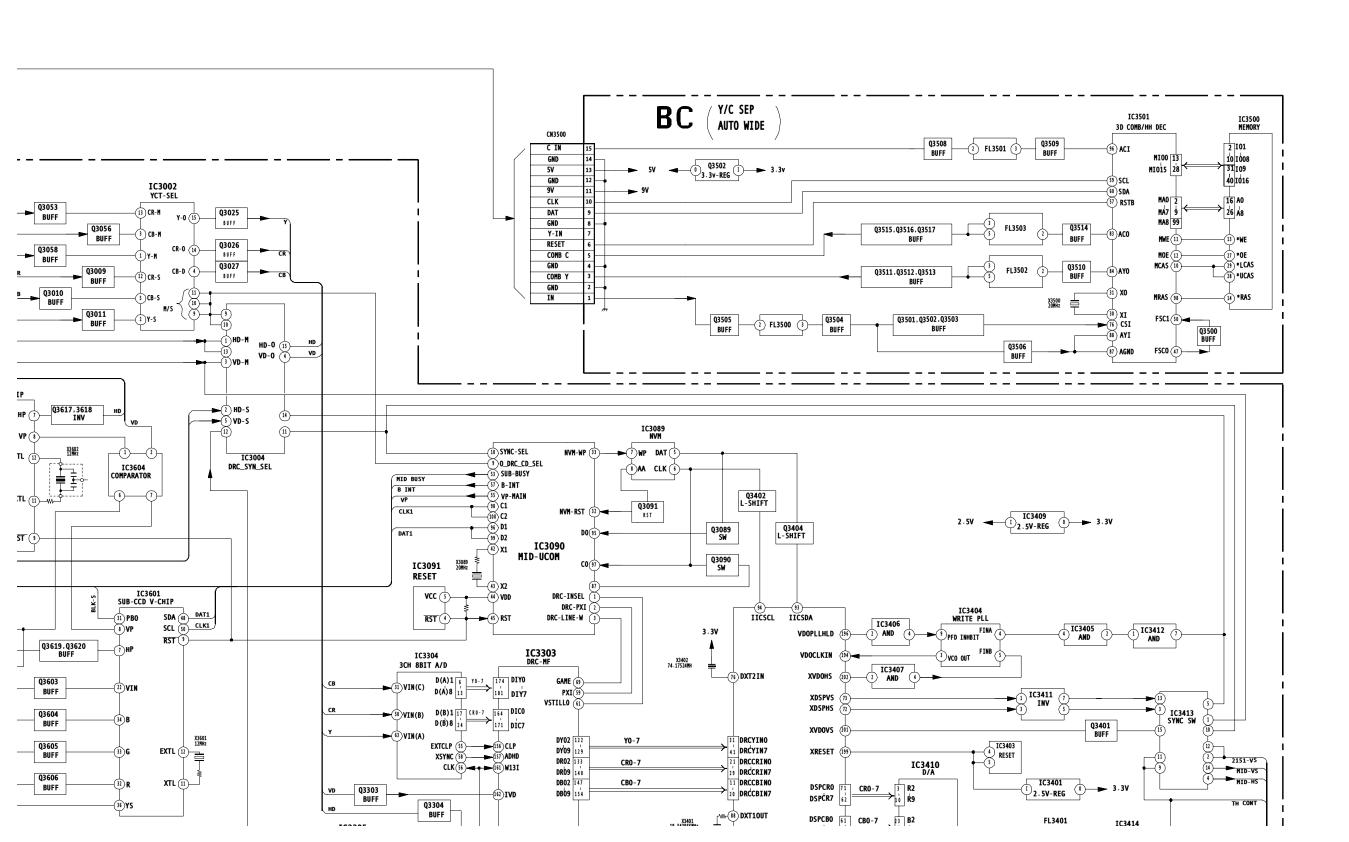


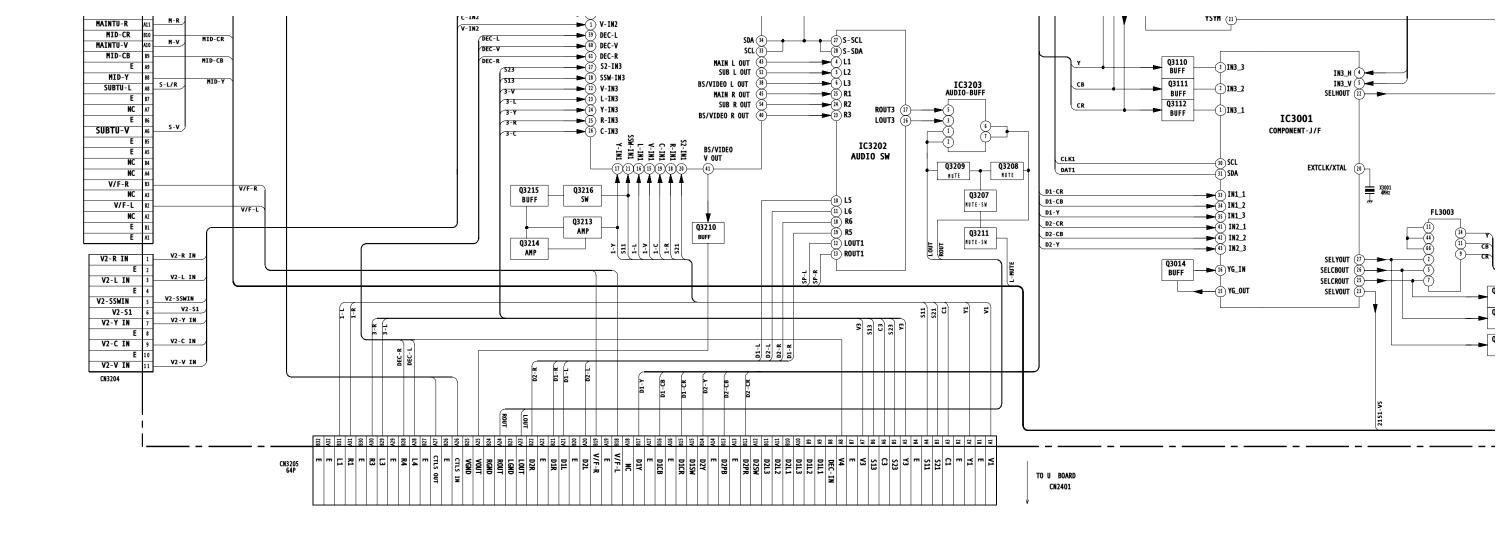
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	R4119	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	*	CN9104	1-770-747-11	CONNECTOR, BOARD	TO BOARI	D 12P	
	R4120	1-216-073-91	RES-CHIP	10K	5%	1/10W							
	R4121	1-216-077-91	RES-CHIP	15K	5%	1/10W			DIODE				
	R4123	1-216-073-91	RES-CHIP	10K	5%	1/10W			DIODL				
	R4124	1-216-049-11	RES-CHIP	1K	5%	1/10W		D9101	8-719-924-11	DIODE MTZJ-T-77-22			
								D9102	8-719-924-11	DIODE MTZJ-T-77-22			
	R4125	1-216-101-00	RES-CHIP	150K	5%	1/10W		D9103	8-719-404-50	DIODE MA111-TX			
	R4126	1-216-081-00	RES-CHIP	22K	5%	1/10W		D9104	8-719-404-50	DIODE MA111-TX			
	R4127	1-216-073-91	RES-CHIP	10K	5%	1/10W		D9105	8-719-404-50	DIODE MA111-TX			
	R4128	1-216-091-00	RES-CHIP	56K	5%	1/10W							
	R4129	1-216-073-91	RES-CHIP	10K	5%	1/10W		D9106	8-719-404-50	DIODE MA111-TX			
					-,-			D9107	8-719-510-02	DIODE D1NS4-TR			
	R4130	1-216-053-00	RES-CHIP	1.5K	5%	1/10W							
	R4131	1-216-129-00	RES-CHIP	2.2M	5%	1/10W			COIL				
	R4132	1-216-085-91	RES-CHIP	33K	5%	1/10W							
	R4133	1-216-092-00	RES-CHIP	62K	5%	1/10W		L9101	1-412-525-31	INDUCTOR	10µH		
	R4134	1-216-073-91	RES-CHIP	10K	5%	1/10W							
									TRANSISTOR				
	R4135	1-216-017-91	RES-CHIP	47	5%	1/10W		00404	0.700.045.05	TDANICICTOD 2CA200	-		
	R4136	1-216-017-91	RES-CHIP	47	5%	1/10W		Q9101	8-729-045-05	TRANSISTOR 2SA2009			
								Q9102	8-729-045-04	TRANSISTOR 2SC551			
								Q9103	8-729-422-27	TRANSISTOR 2SD601			
- [\]	\ /							Q9104	8-729-422-27	TRANSISTOR 2SD601		n	
V	V							Q9105	8-729-120-28	TRANSISTOR 2SC241		K	
	*	A-1372-833-A	W BOARD, MOUNT	ED				Q9106	8-729-424-02	TRANSISTOR 2SB709		n	
								Q9107	8-729-120-28	TRANSISTOR 2SC241		K	
		4-382-854-01	SCREW (M3X8), P, SW	(+)				Q9108	8-729-424-02	TRANSISTOR 2SB709	4-QR5-1X		
		CAPACITOR							RESISTOR				
		<u>OAI AOITON</u>						R9102	1-249-414-11	CARBON	560	5%	1/4W
	C9101	1-107-364-11	MYLAR	0.01µF	10%	200V		R9103	1-249-432-11	CARBON	18K	5%	1/4W
	C9102	1-107-364-11	MYLAR	0.01µF	10%	200V		R9104	1-249-432-11	CARBON	18K	5%	1/4W
	C9103	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V		R9105	1-249-414-11	CARBON	560	5%	1/4W
	C9104	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V		R9106	1-249-421-11	CARBON	2.2K	5%	1/4W
	C9105	1-104-999-11	MYLAR	0.1µF	10%	200V		110100	1 243 421 11	ONINDON	2.21	0 /0	1/4**
								R9107	1-249-421-11	CARBON	2.2K	5%	1/4W
	C9106	1-107-667-11	ELECT	2.2µF	20%	160V		R9108	1-260-316-51	CARBON	100	5%	1/2W
	C9107	1-126-935-11	ELECT	470µF	20%	16V		R9109	1-249-385-11	CARBON	2.2	5%	1/4W
	C9108	1-126-935-11	ELECT	470µF	20%	16V		R9110	1-249-385-11	CARBON	2.2	5%	1/4W
	C9109	1-107-963-11	ELECT	33µF	20%	160V		R9111	1-249-405-11	CARBON	100	5%	1/4W
	C9112	1-126-933-11	ELECT	100μF	20%	16V				0, 11, 120.1		0,0	
	C9113	1-126-933-11	ELECT	100µF	20%	16V							
	C9115	1-126-935-11	ELECT	470µF	20%	6.3V							
	C9116	1-126-935-11	ELECT	470μF	20%	6.3V							
	C9117	1-104-999-11	MYLAR	470μ1 0.1μF	10%	200V							
	30111			ν. ημι	. 0 /0	-00 T							
		CONNECTOR											
*	CN9101	1-564-506-11	PLUG,CONNECTOR		3P								
*	CN9102	1-564-515-11	PLUG,CONNECTOR		12P								
*	CN9103	1-564-506-11	PLUG,CONNECTOR		3P								
			•										

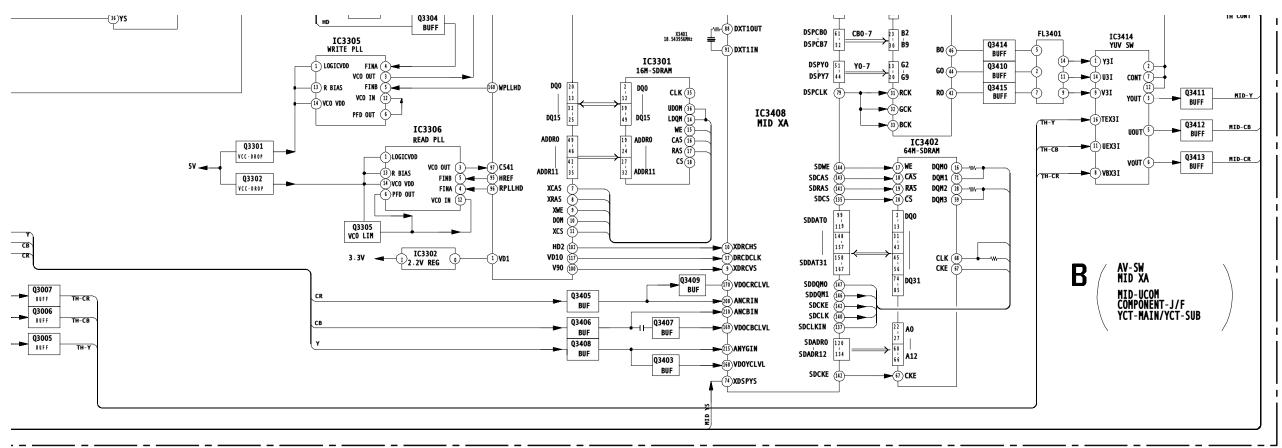
REF.NO.	PART NO.	DESCRIPTION	VALUES	REF.NO.	PART NO.	DESCRIPTION	VALUES
	ACCESSORIES	AND PACKING MATERIA	<u>als</u>				
*	4-066-646-02	BAG, PROTECTION					
		(V-32HS20/32XBR450)					
*	4-066-845-02	BAG, PROTECTION					
	(KV-32HS20/32)						
*	4-082-476-01	CARTON, HSC					
		36XBR450H ONLY)					
*	4-082-491-01	CARTON, HSC					
	(KV-36HS20/36H	HS20H ONLY)					
*	4-082-587-01	CARTON, INDIVIDUA	L				
	(KV-32HS20 ON	ILY)					
*	4-075-743-04	CARTON, INDIVIDUA	L				
	(KV-32XBR450						
*	4-082-401-01	CUSHION ASSY, FRO	NT (UPPER)				
*		(V-32HS20/32XBR450)	/CD				
	4-081-768-01	CUSHION ASSY, LOW	/EK				
*	4-075-733-03	(V-32HS20/32XBR450) CUSHION ASSY, UPP	ER (REΔR)				
	(KV-32HS20/32)		LIX (IXLAIX)				
*	4-075-734-02	CUSHION ASSY, UPP	FR				
	(KV-32HS20/32)						
*	4-075-735-03	CUSHION ASSY, LOW	/ER				
	(KV-32HS20/32)						
	4-082-506-21	MANUAL, INSTRUCT	ON (ENGLISH)				
	(ALL EXCEPT K	(V-32HS20/36HS20/36HS2	20H)				
	4-082-506-31	MANUAL, INSTRUCT	ON (FRENCH)				
	(KV-32XBR4500	C/36XBR450C ONLY)					
	4-082-507-21	MANUAL, INSTRUCT	ON				
		HS20/36HS20H ONLY)					
	4-396-077-01	JOINT					
	(ALL EXCEPT K	(V-32HS20/32XBR450)					
	REMOTE COMM	MANDER .					
	1-476-683-11	REMOTE COMMAND	ER (RM-Y184)				
	(ALL EXCEPT K	V-32HS20/36HS20/36HS2	· ·				
	4-081-888-11	BATTERY COVER FO	R RM-Y184				
	(ALL EXCEPT K	(V-32HS20/36HS20/36HS2	20H)				
	1-476-682-11	REMOTE COMMAND	ER (RM-Y183)				
	,	HS20/36HS20H ONLY)					
	4-978-977-21	BATTERY COVER FO	R RM-Y183				
	(KV-32HS20/36H	HS20/36HS20H ONLY)					

Sony Corporation
Sony Technology Center
Technical Services
Service Promotion Department



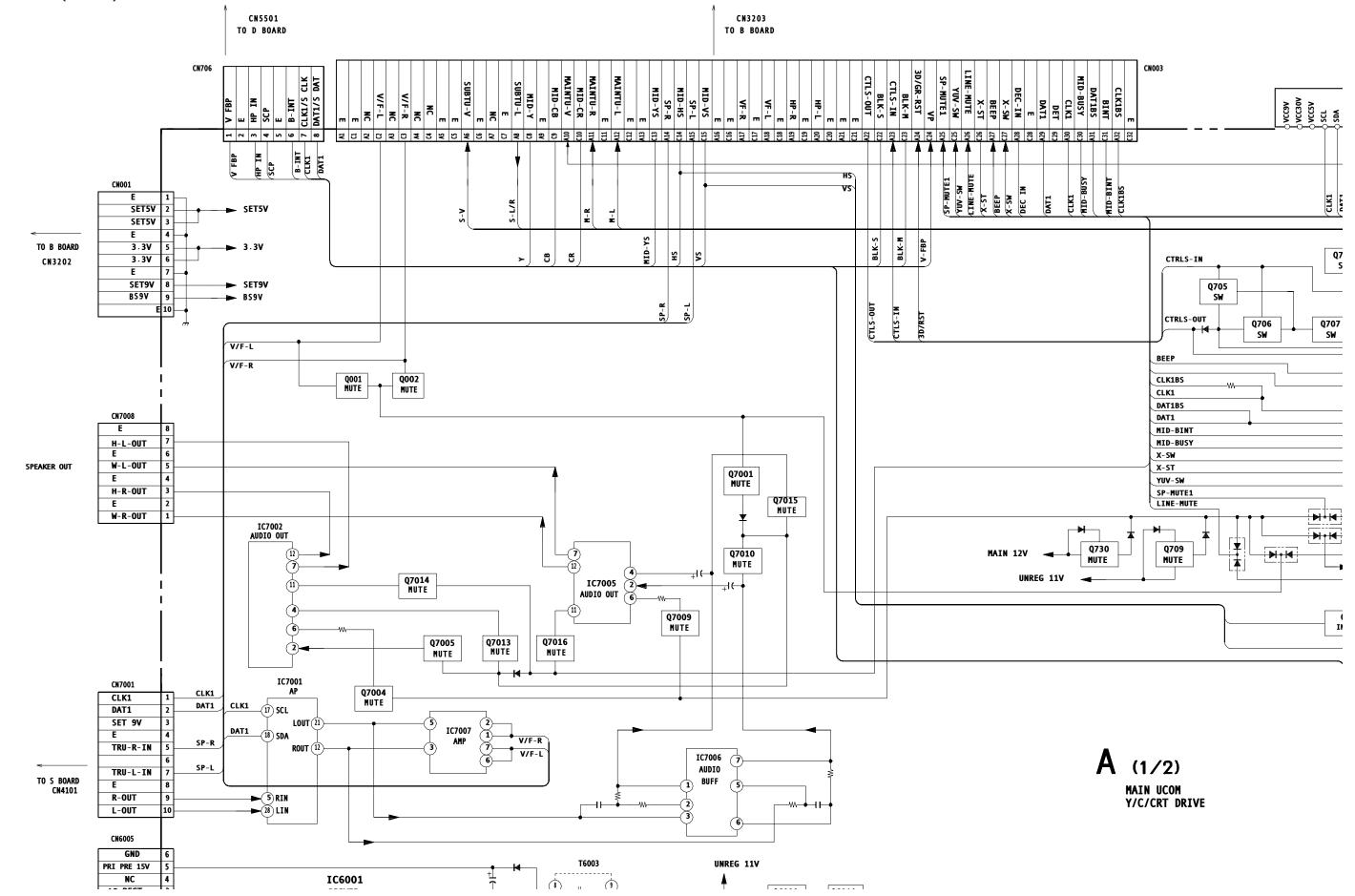


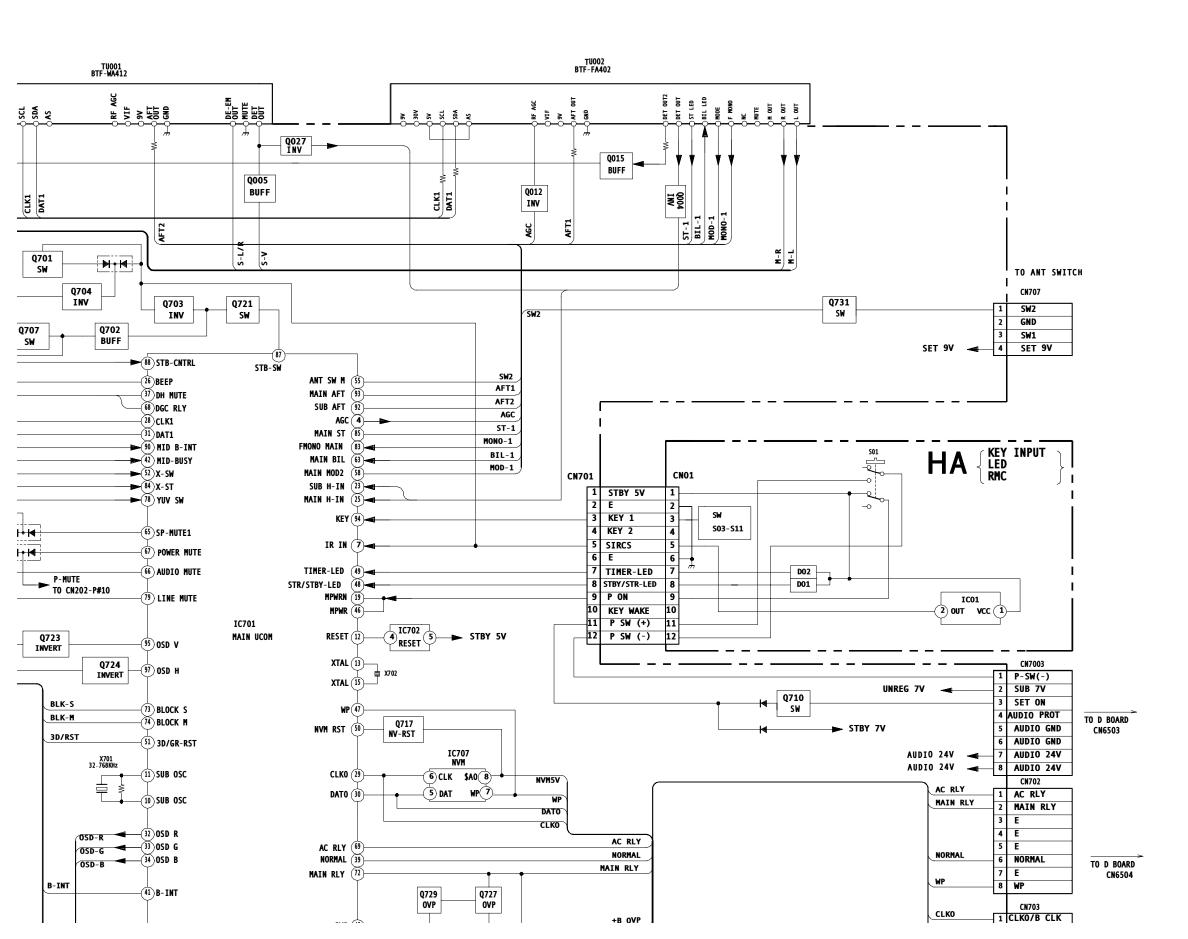


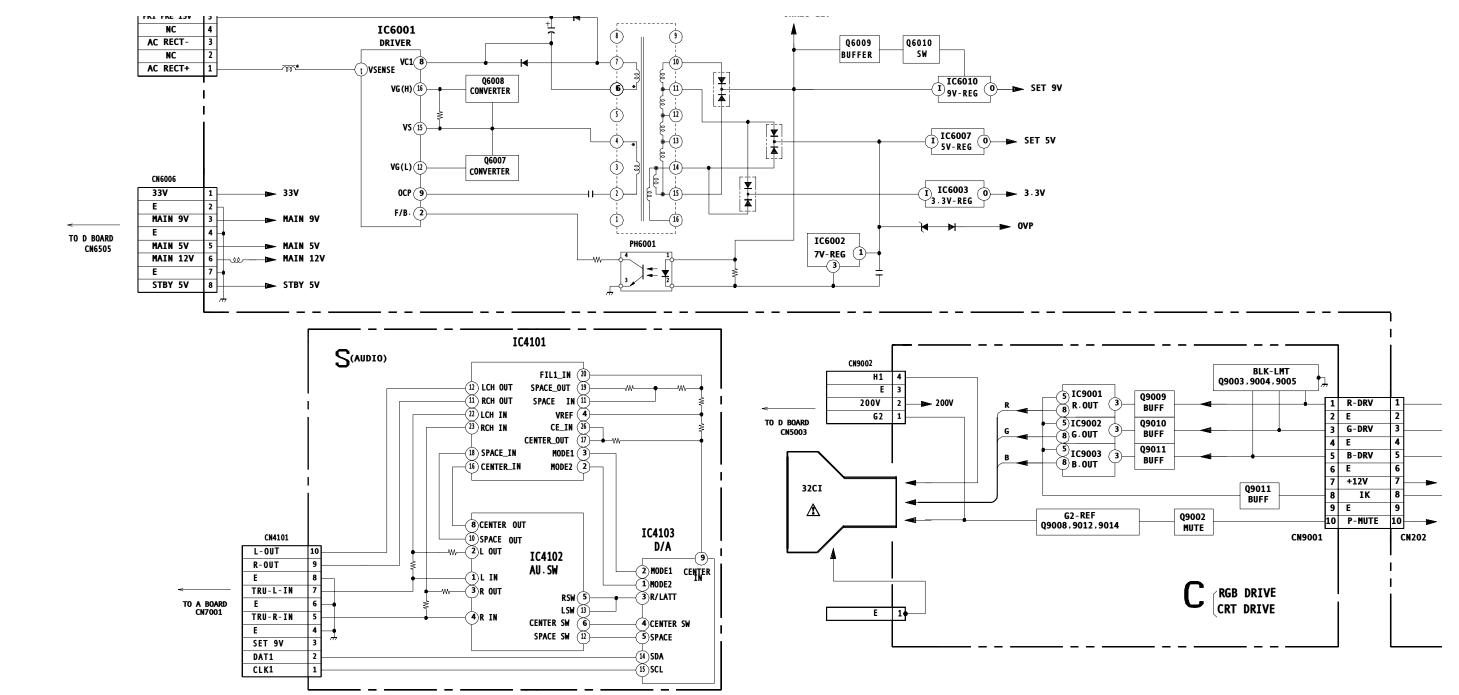


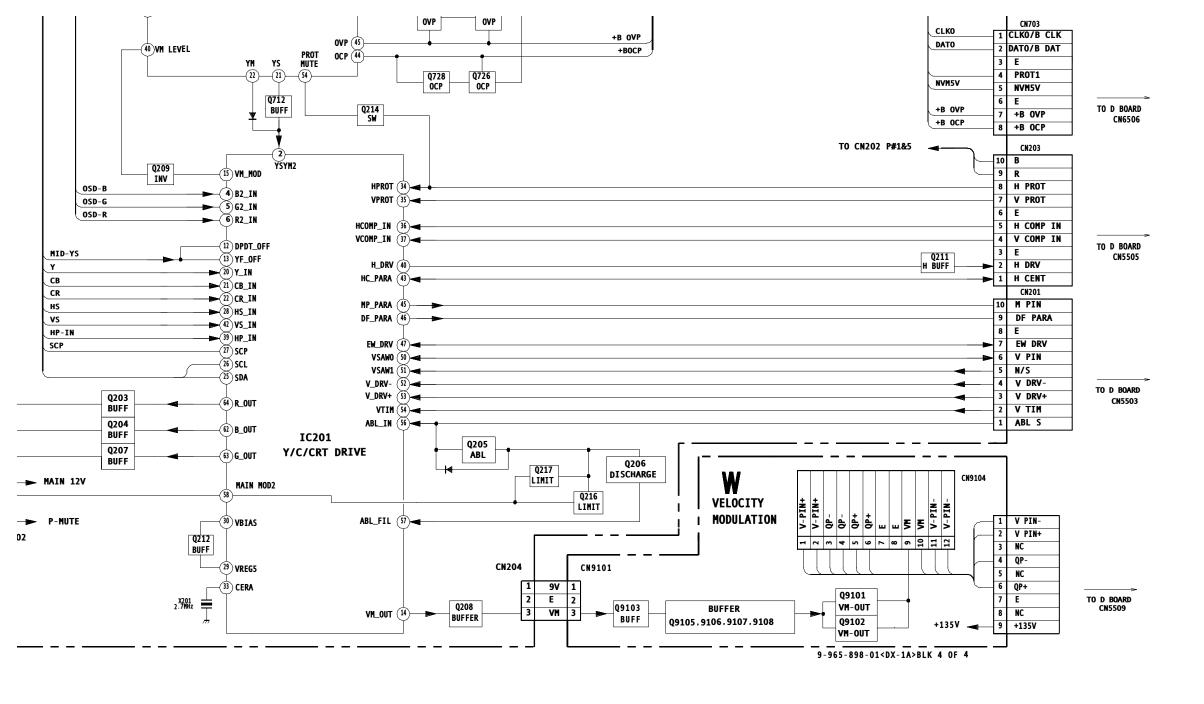
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BLOCK DIAGRAM (4 OF 4)



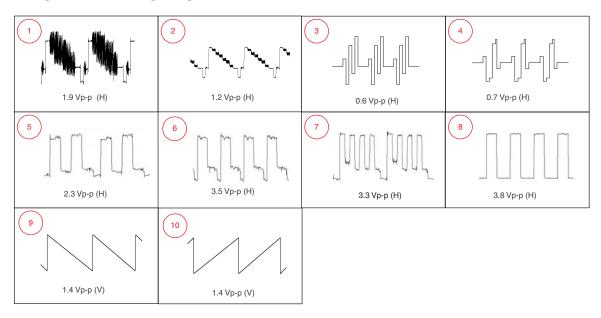




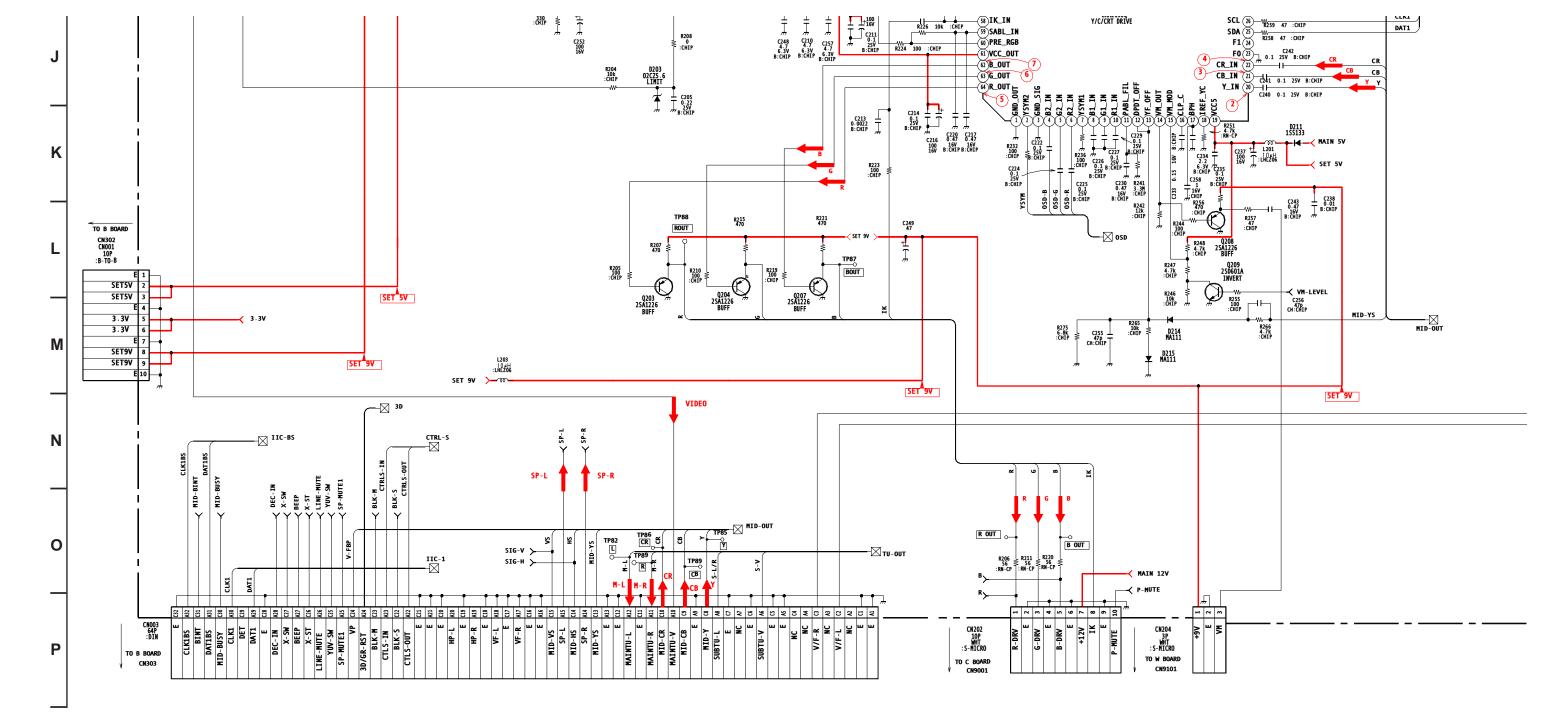


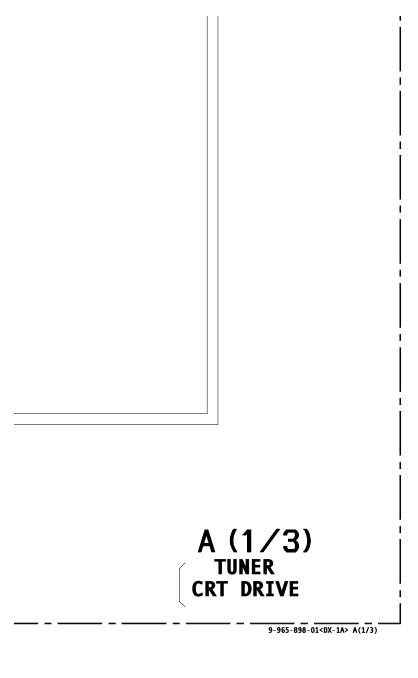
16	17	18		19	20
	 	 -			,
			R004	D004	i
		R160 470k ≶	R004 1k C0 1k C0 W 7 001 R01 201 601A C0	D004 D7-10B	
		23V N	UTE CO14	1 V/F-R	
		//T.	Q002 SD601A HUTE	17 2k 77 77 2k 77 77 77 77 77 77 77 77 77 77 77 77 77	
					TO D BOARD
					CN5505 CN203 10P 18-TO-B
					2 H DRV 3 E 4 V COMP IN
				<i>"</i>	5 H COMP IN 6 E 7 V PROT 8 H PROT
				R >	9 R 10 B
				C253 0.001 B: CHIP	
				n B: Chir	
					j
-1					

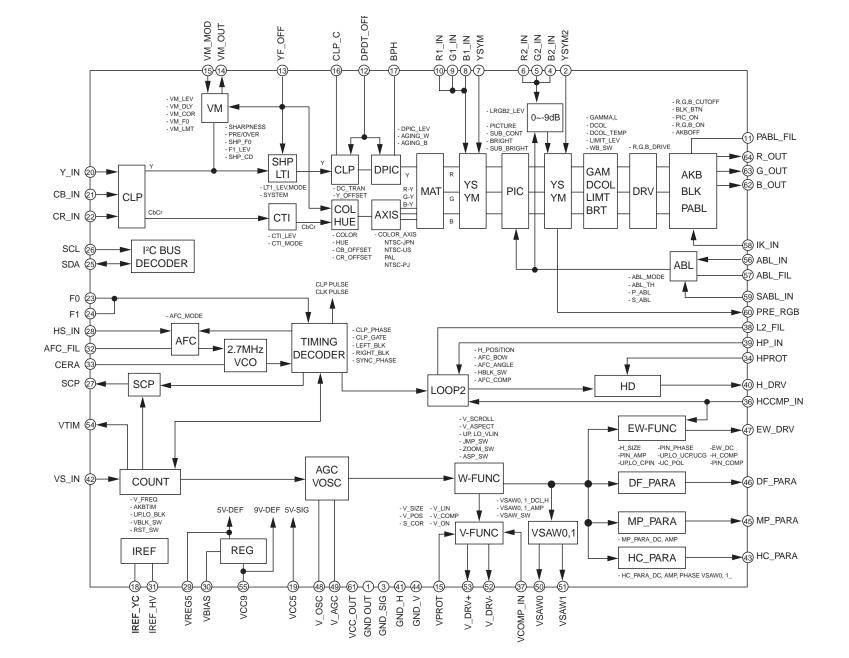
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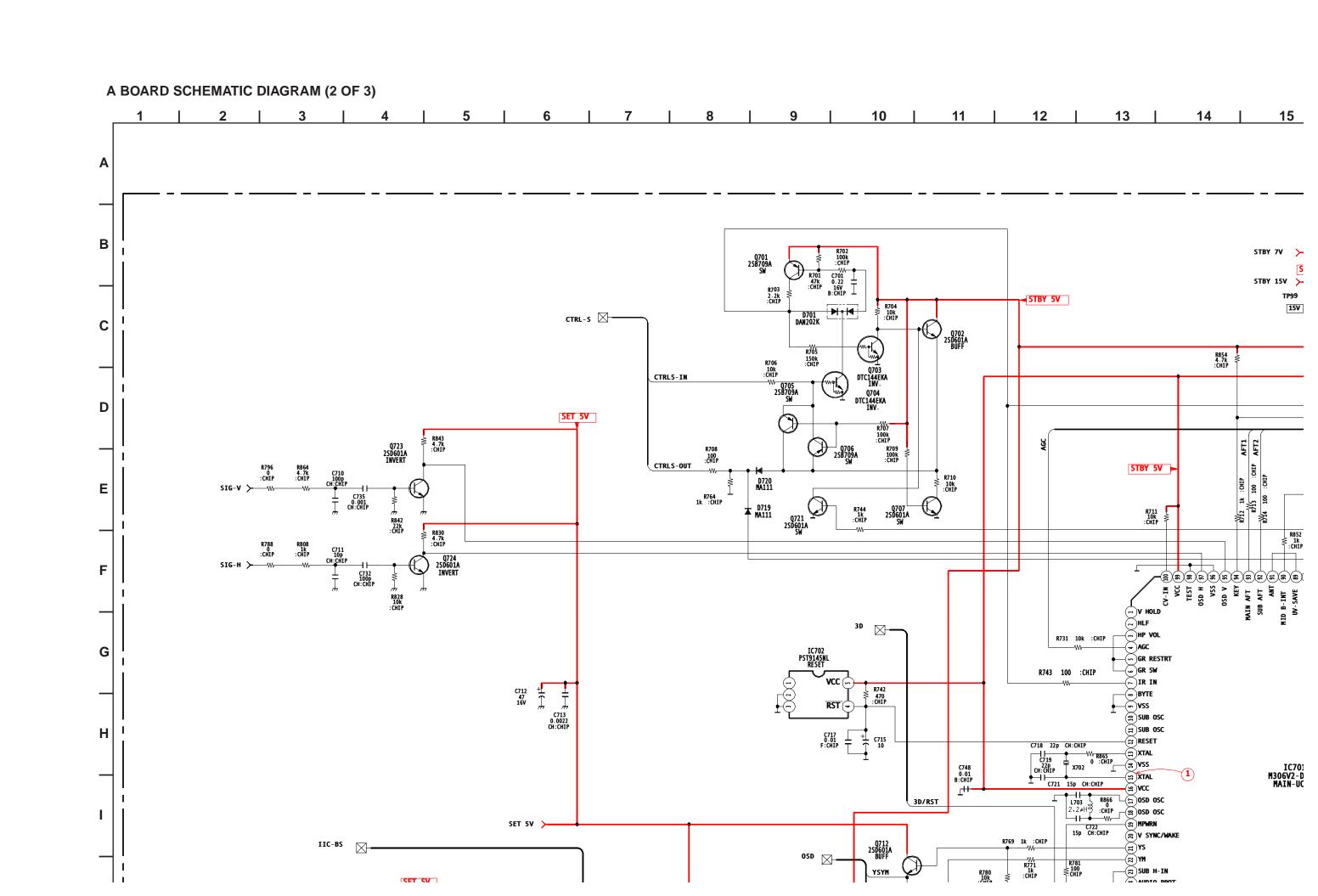


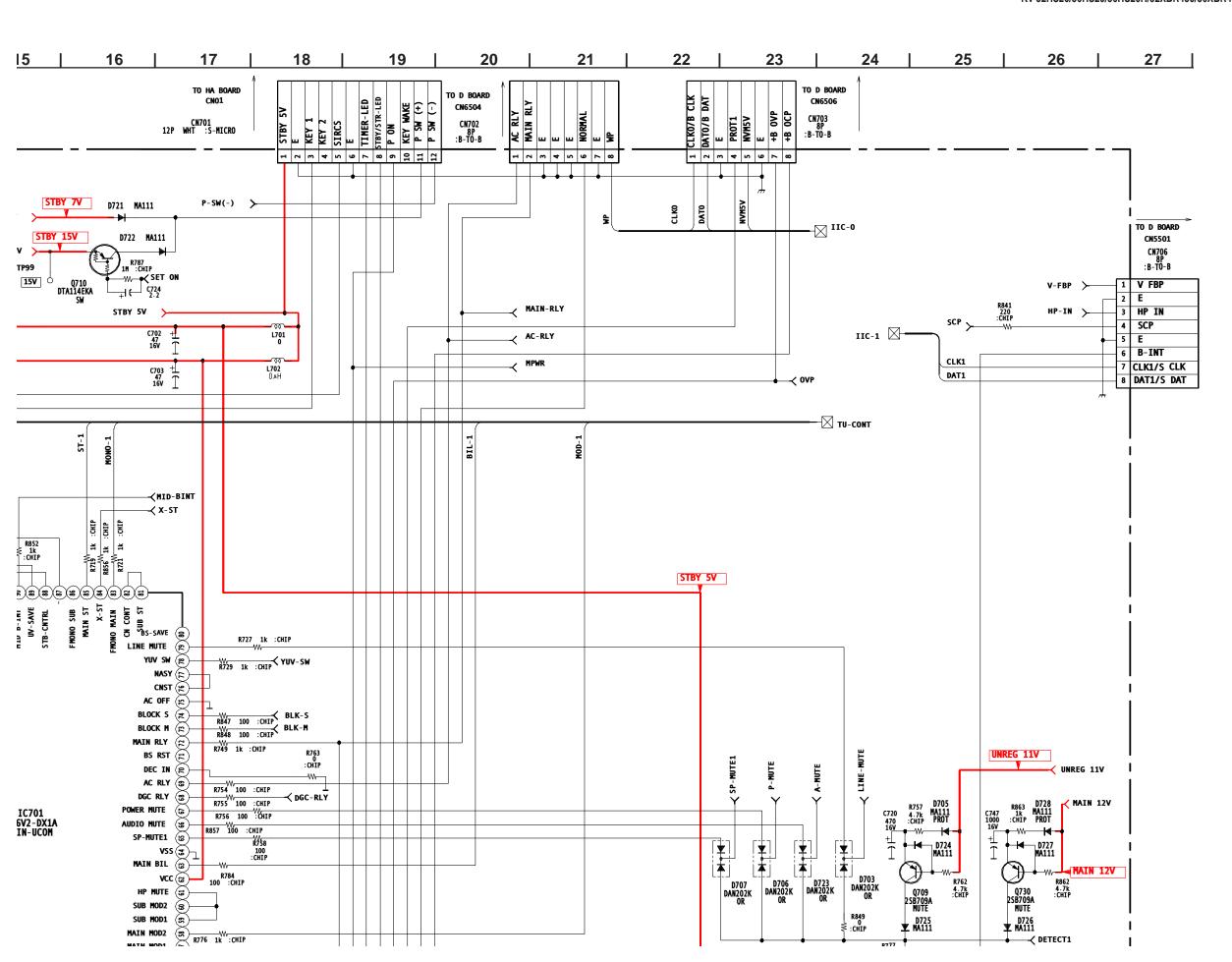
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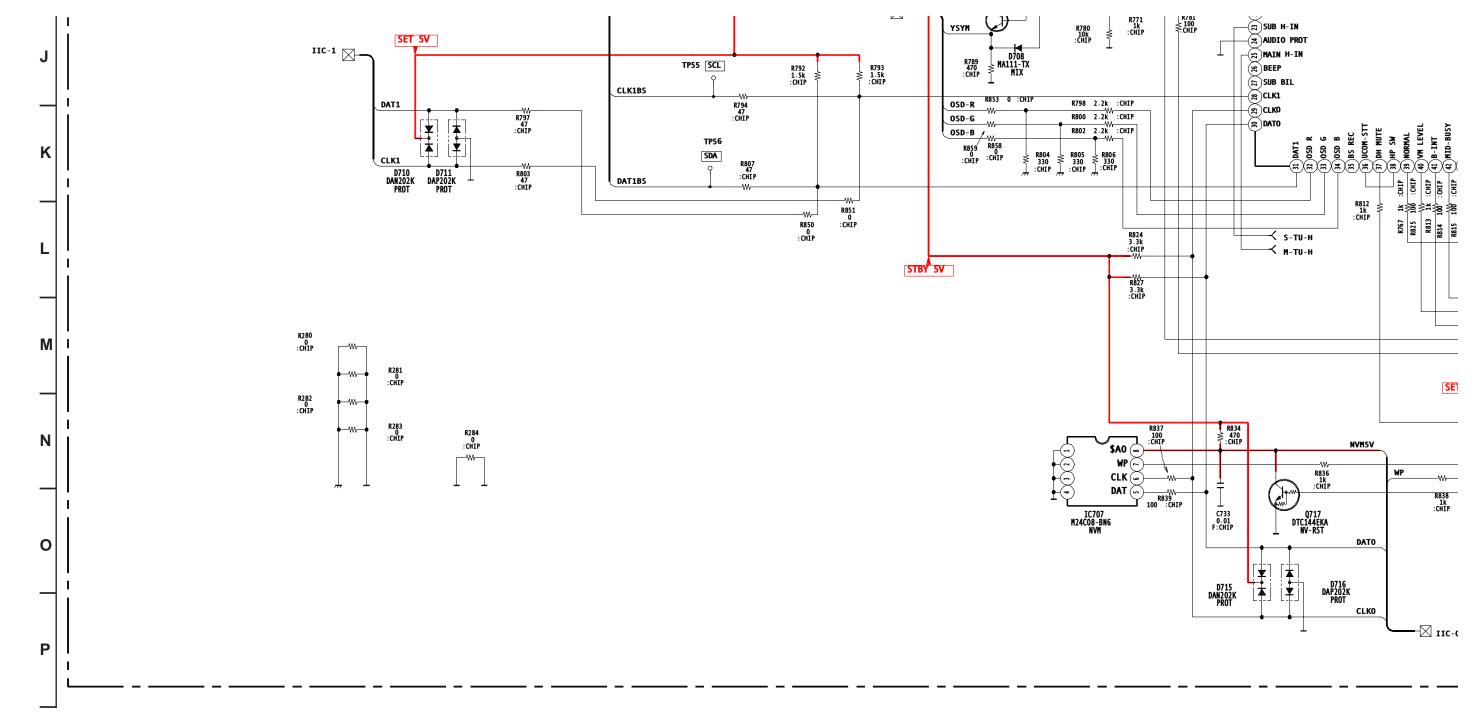


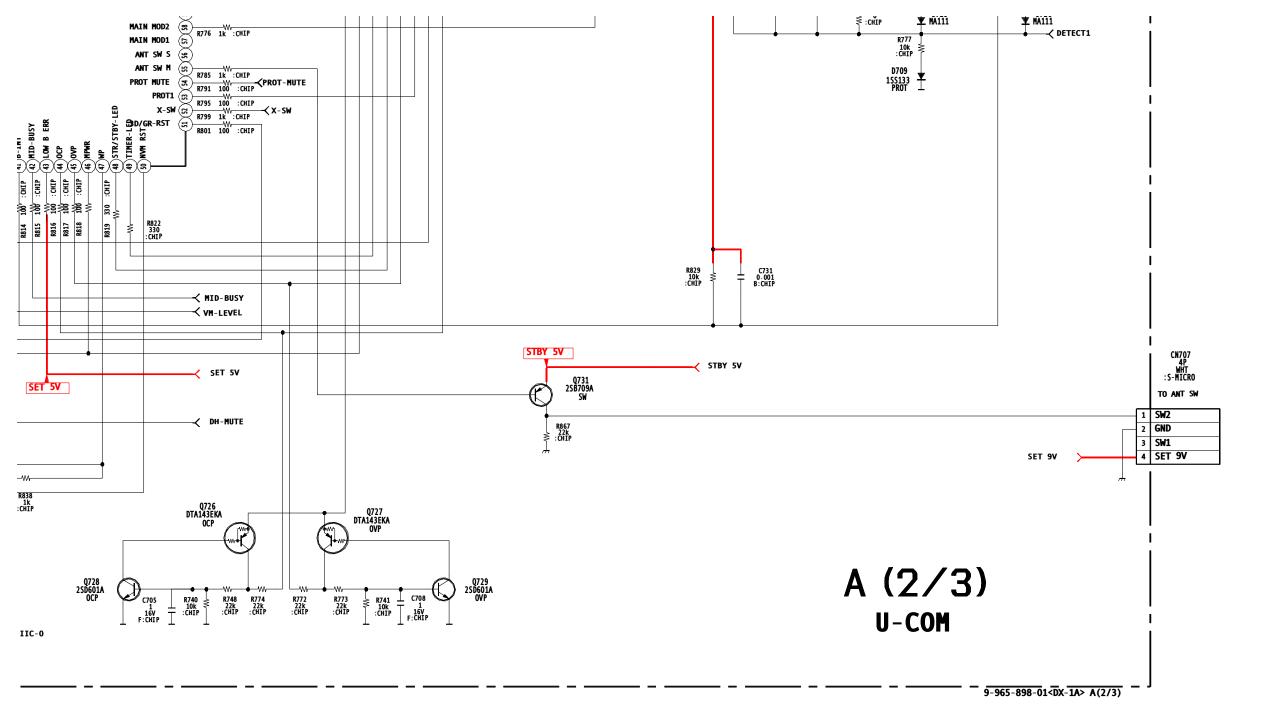


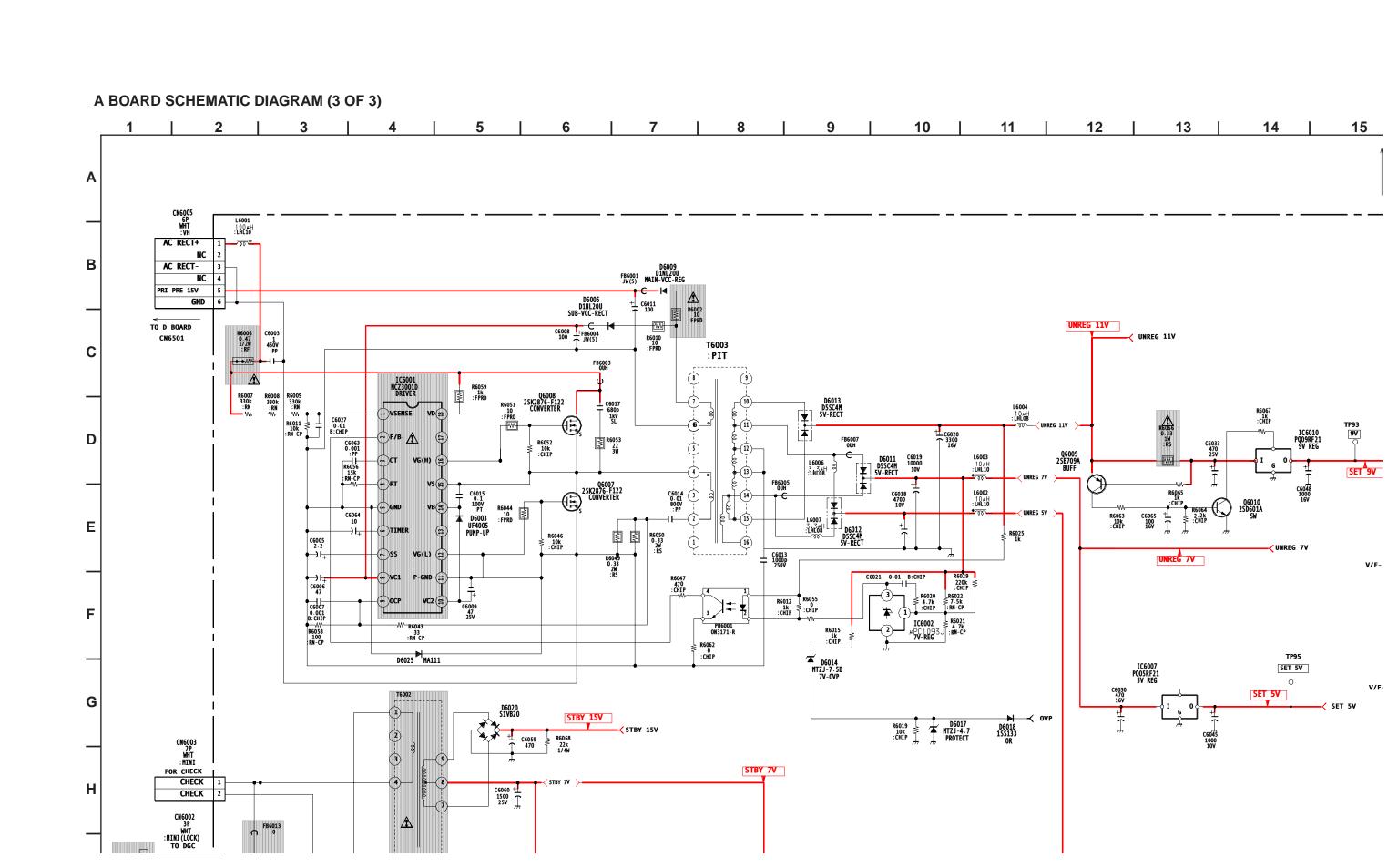


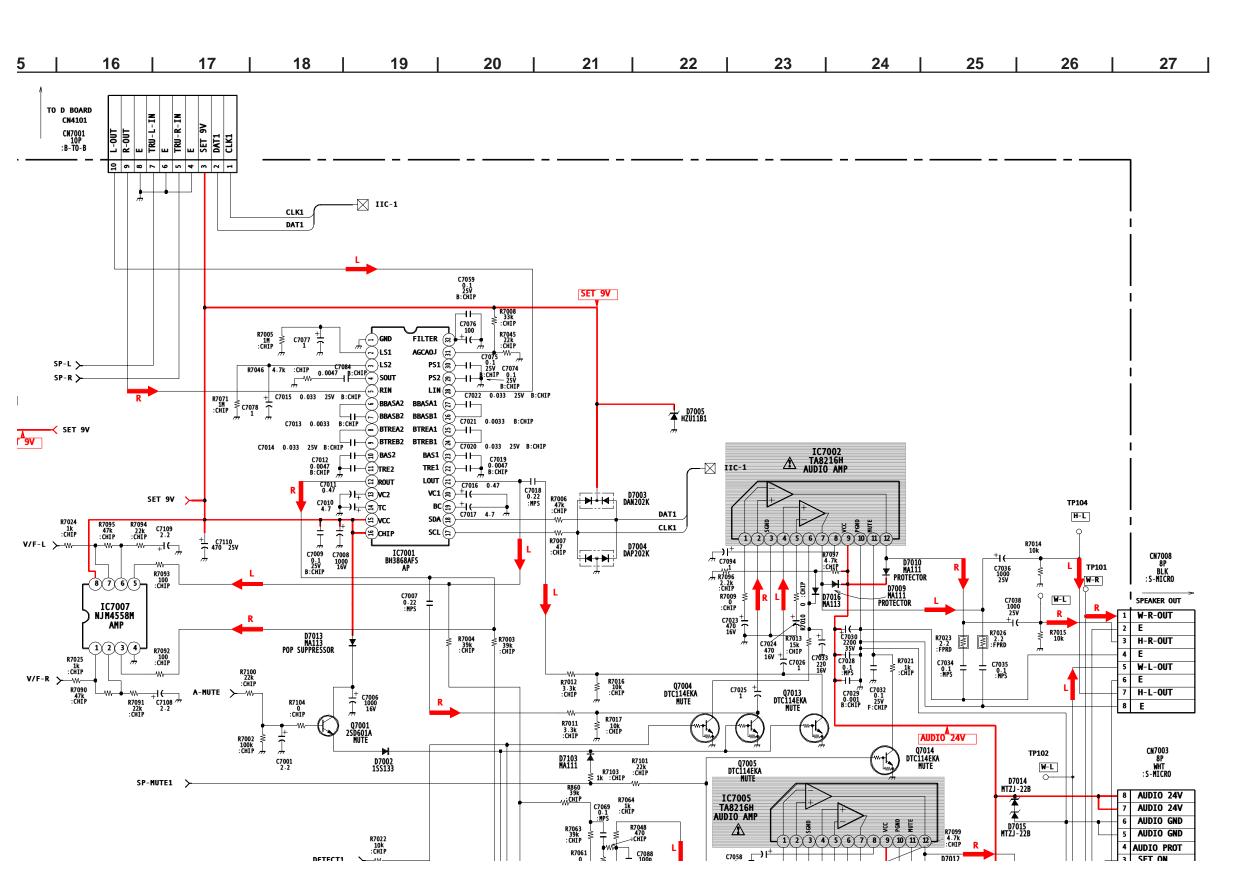


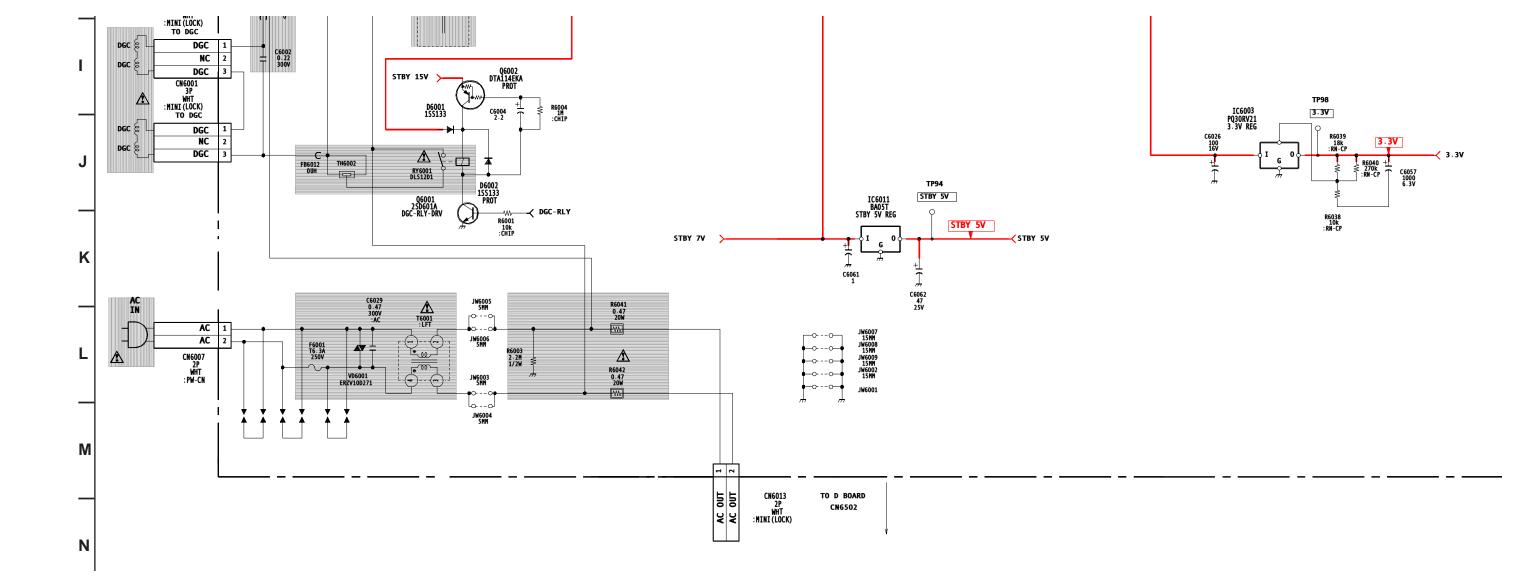


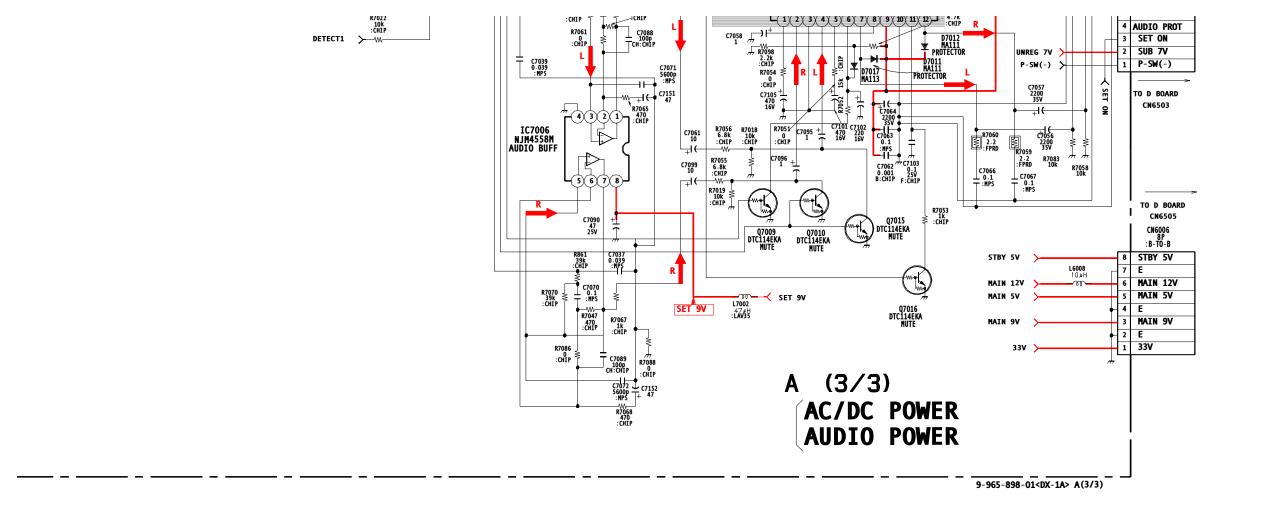




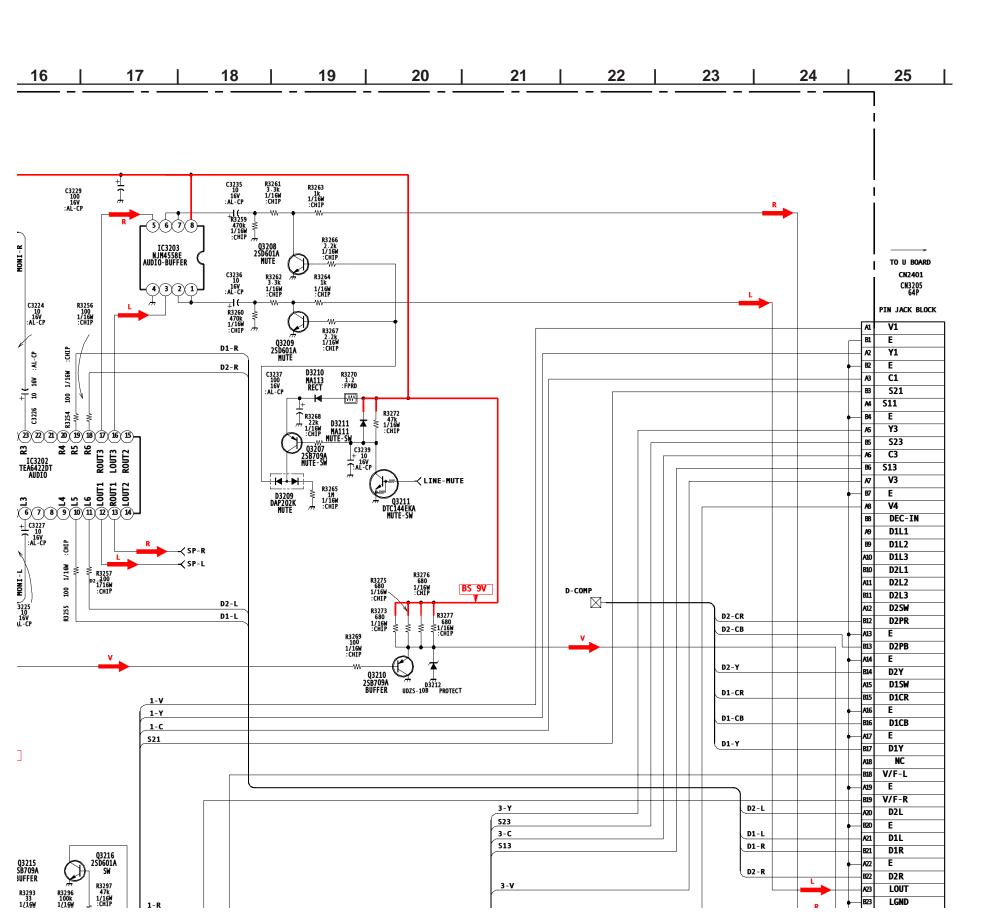


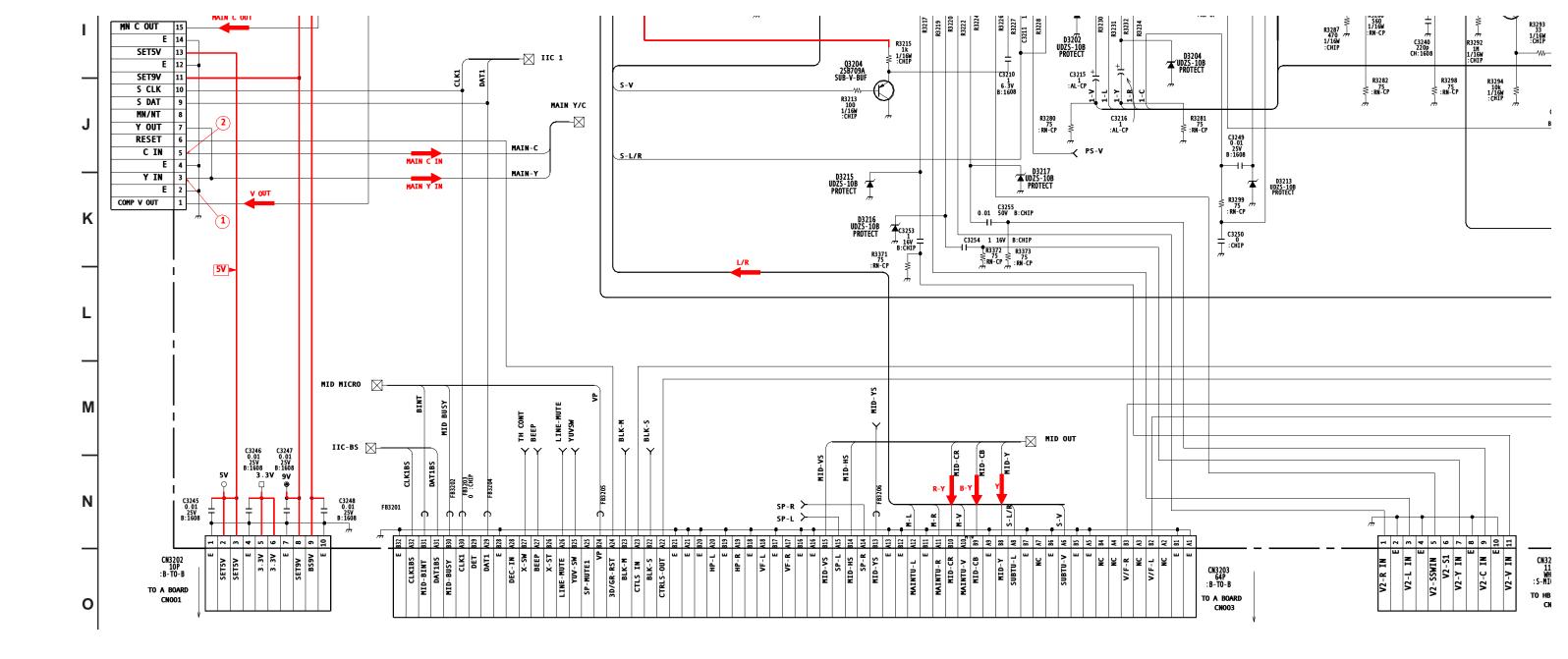


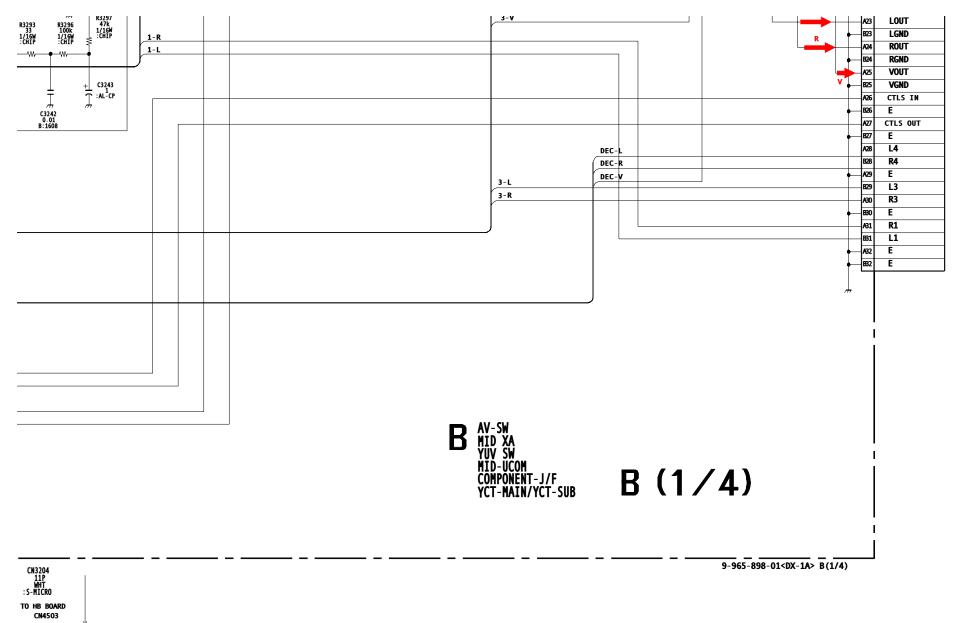




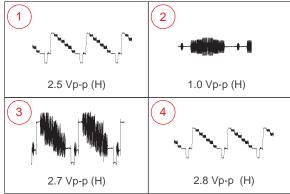
MN C OUT 15



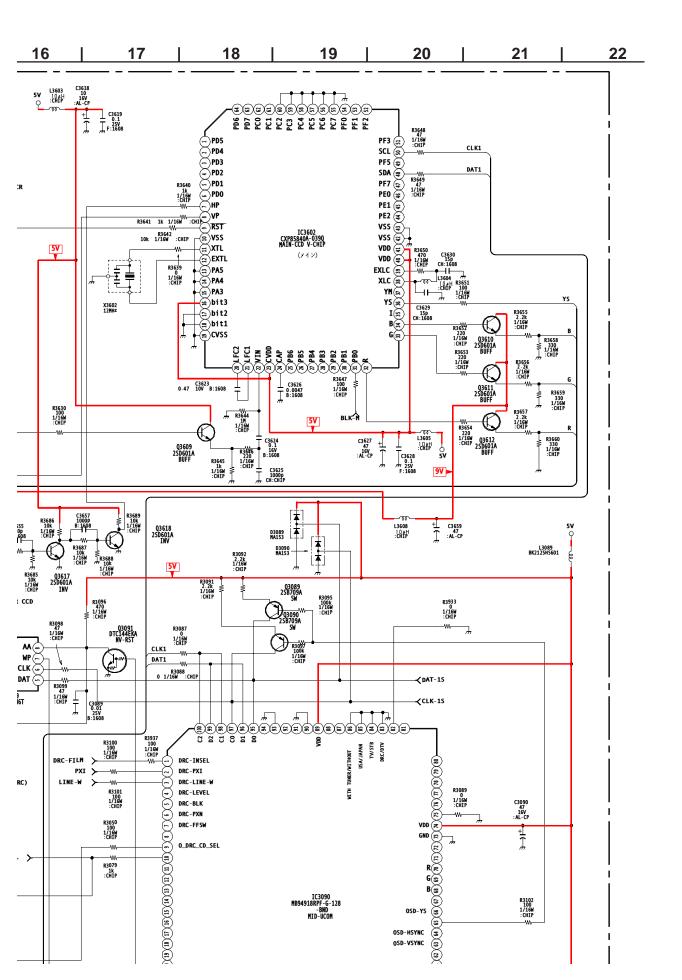




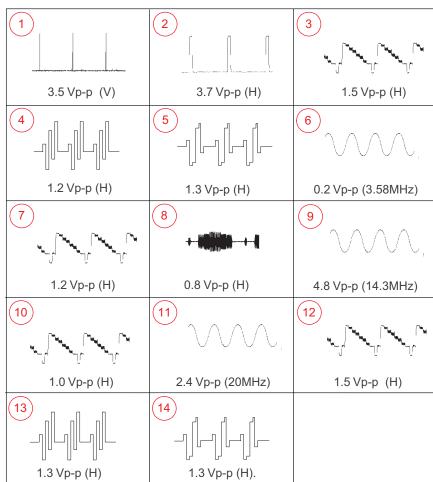
B BOARD WAVEFORMS (1 OF 4)

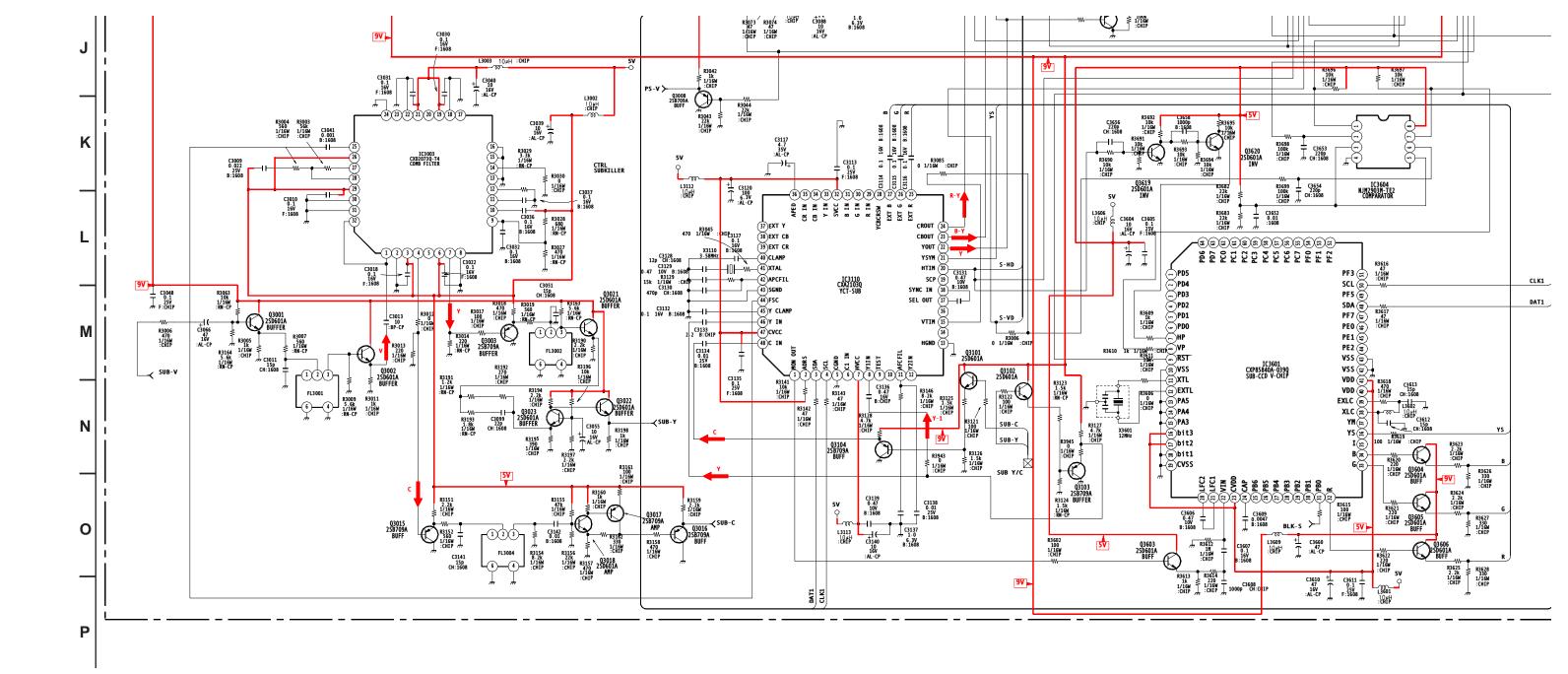


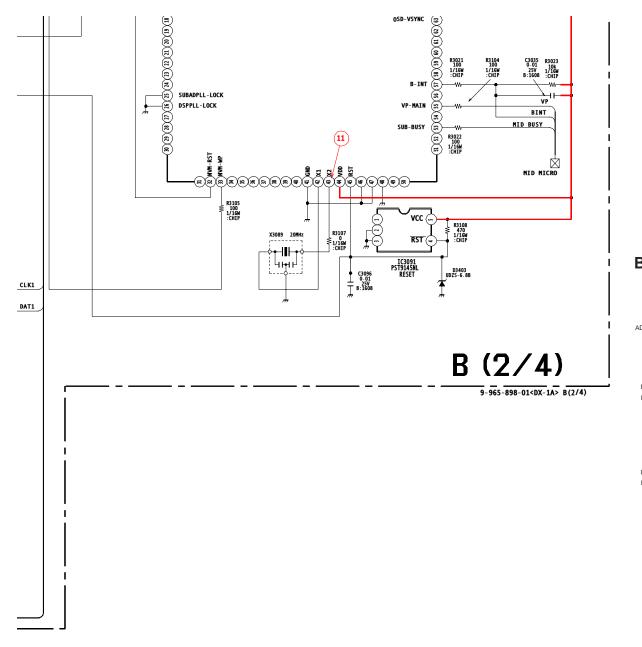
C3030



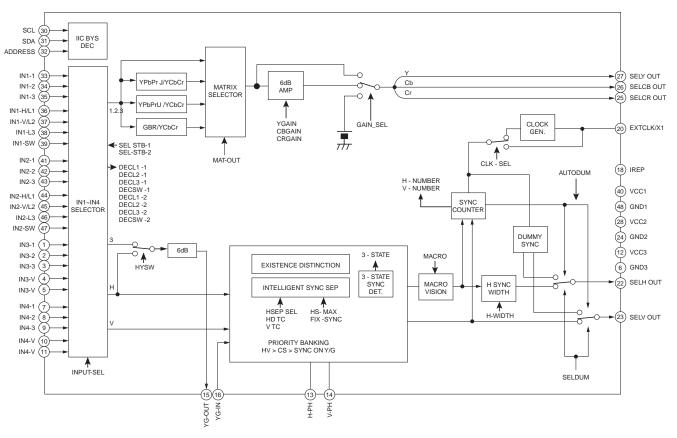
B BOARD WAVEFORMS (2 OF 4)





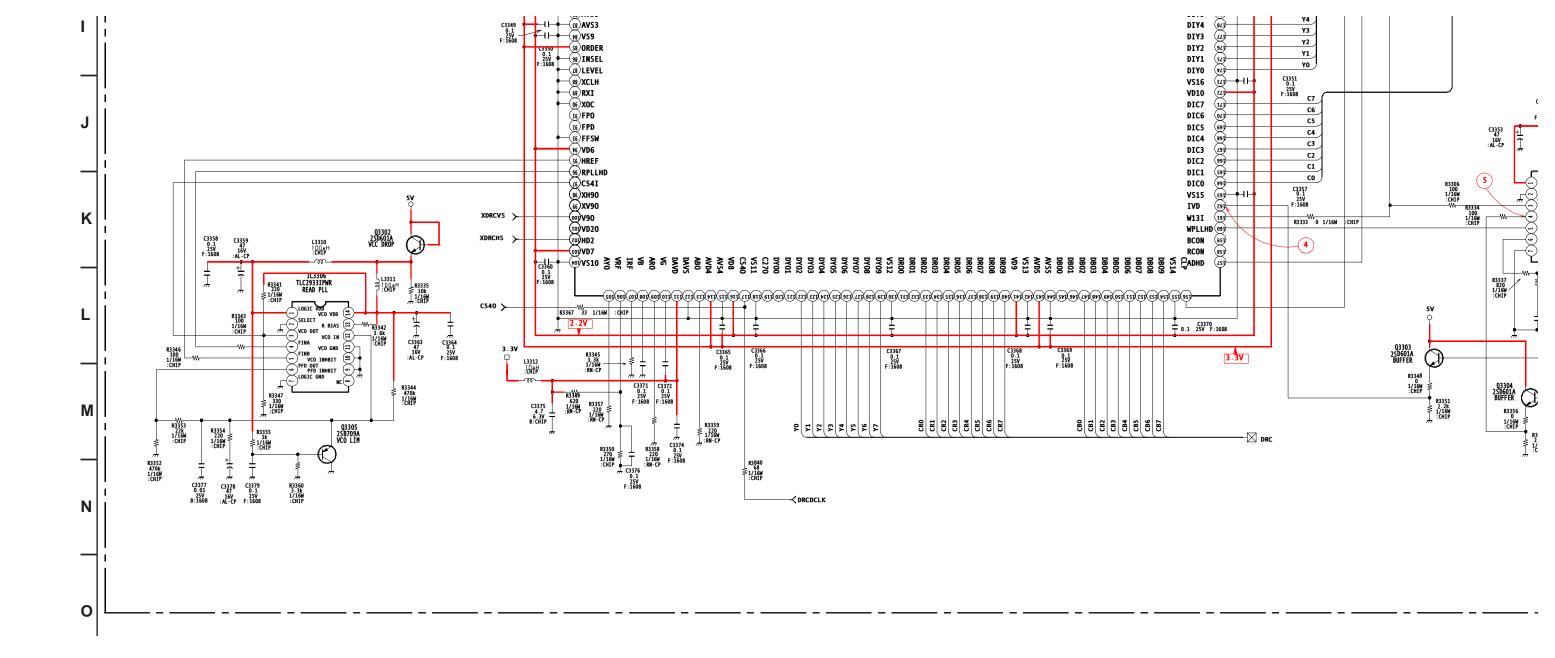


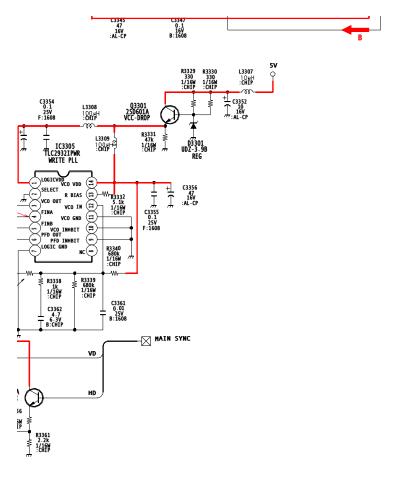
B BOARD: IC3001 CXA2151Q



DIY4 DIY3

KV-32HS20/36HS20/36HS20H/32XBR450/36XBR450/36XBR450H

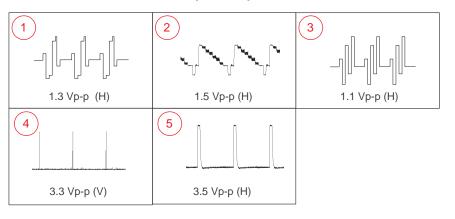




B (3/4)

9-965-898-01<DX-1A> B(3/4)

B BOARD WAVEFORMS (3 OF 4)



237 DTVCIN3

238 DTVCIN2

____240 DTVCINO

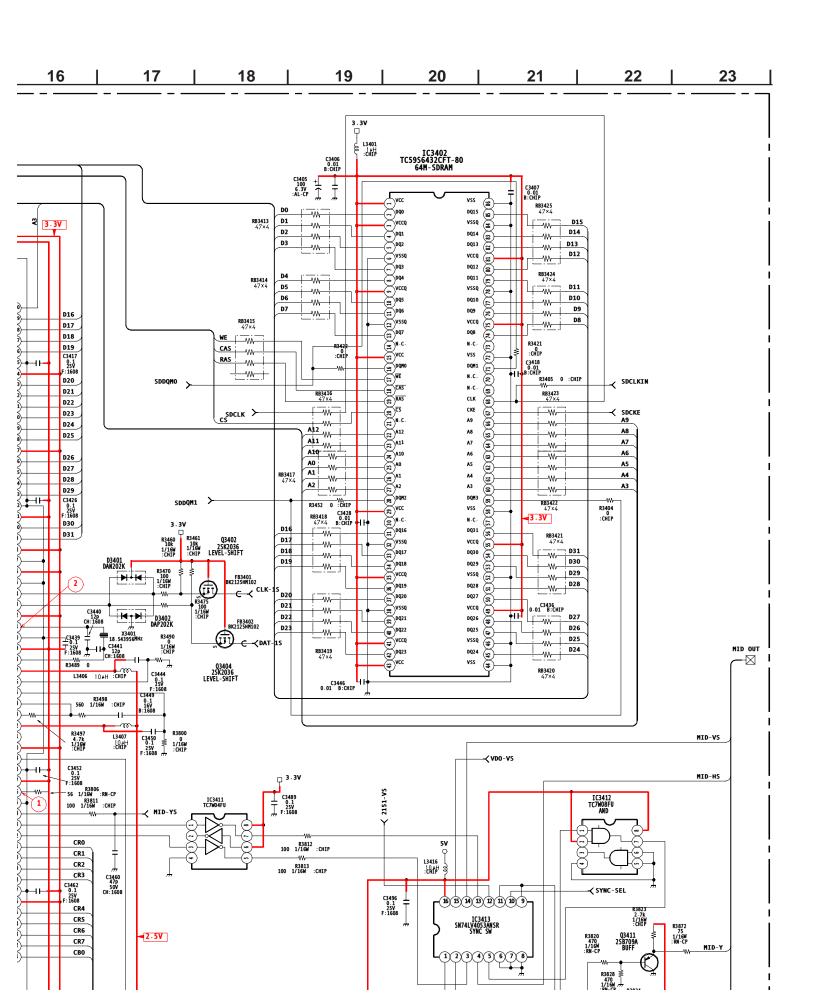
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POTYCLAMP

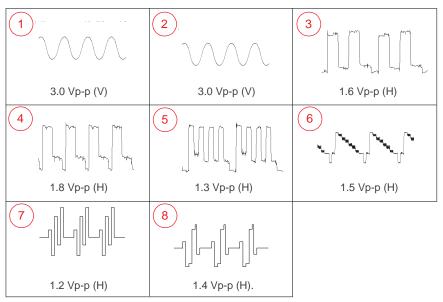
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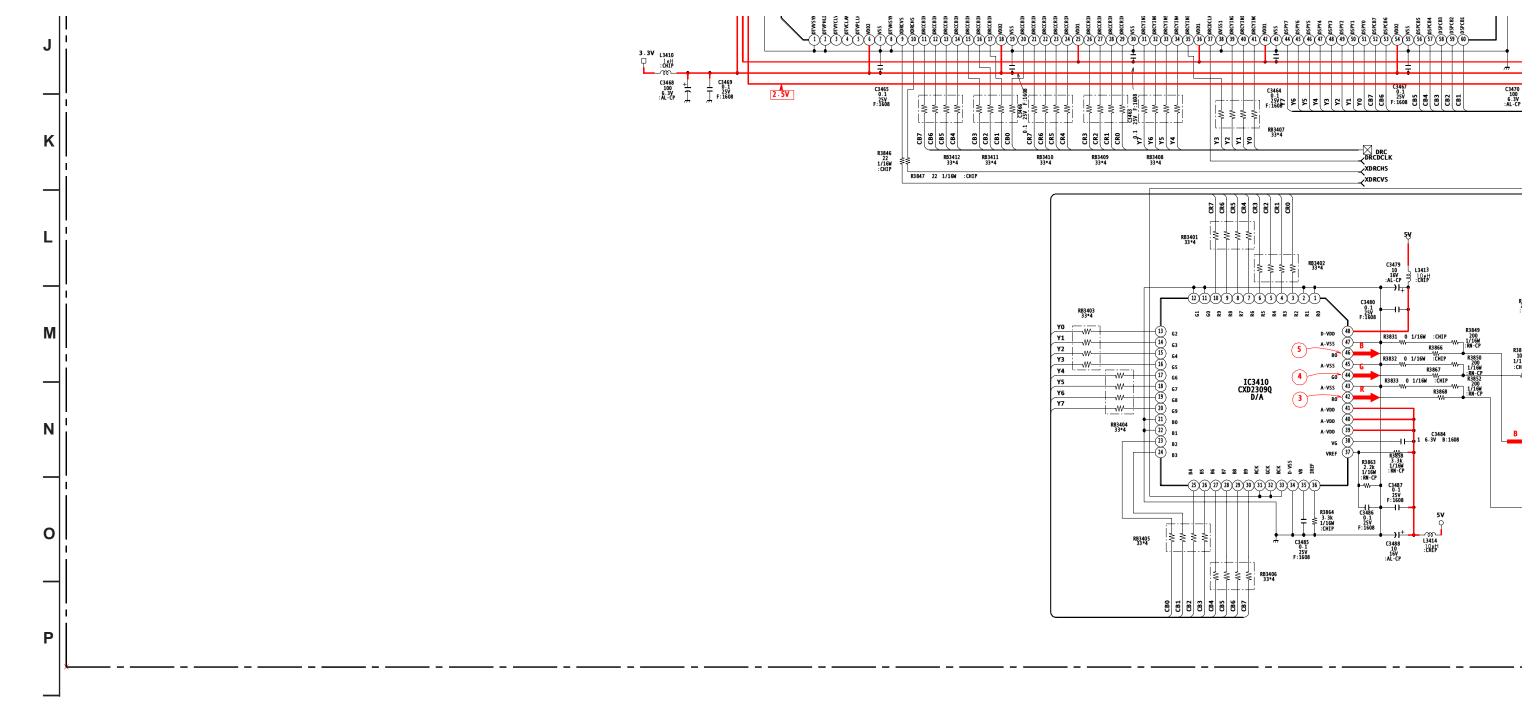
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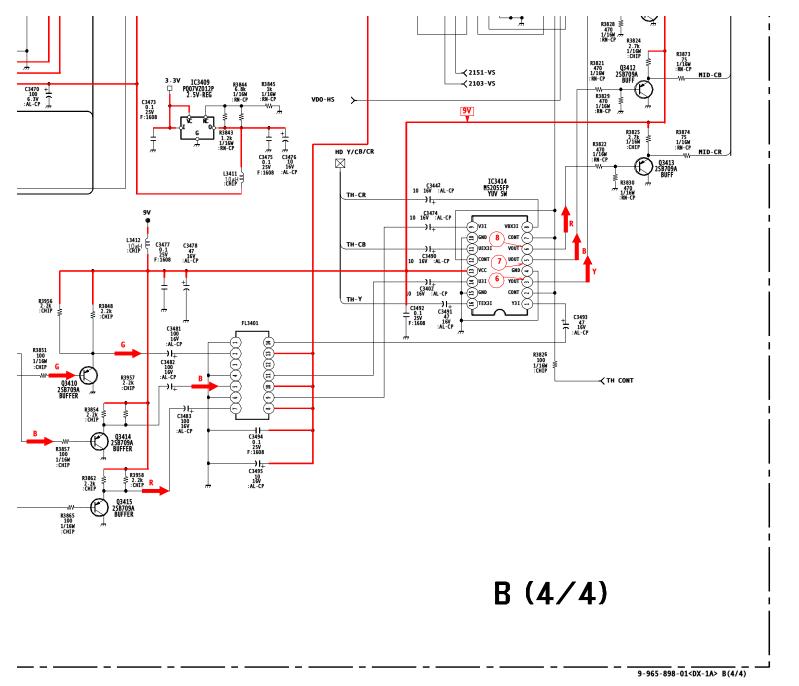
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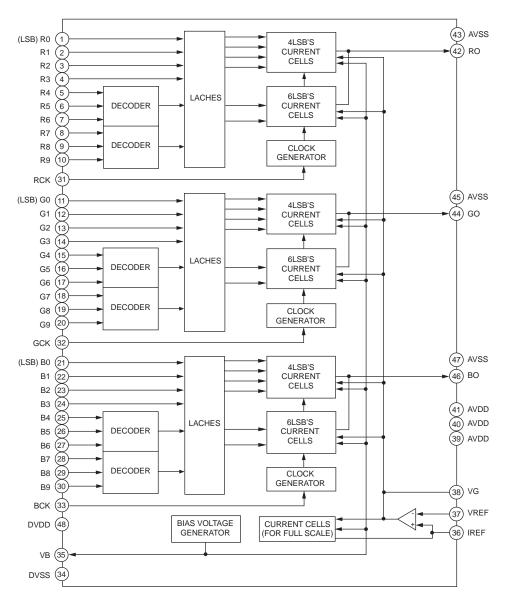
B BOARD WAVEFORMS (4 OF 4)



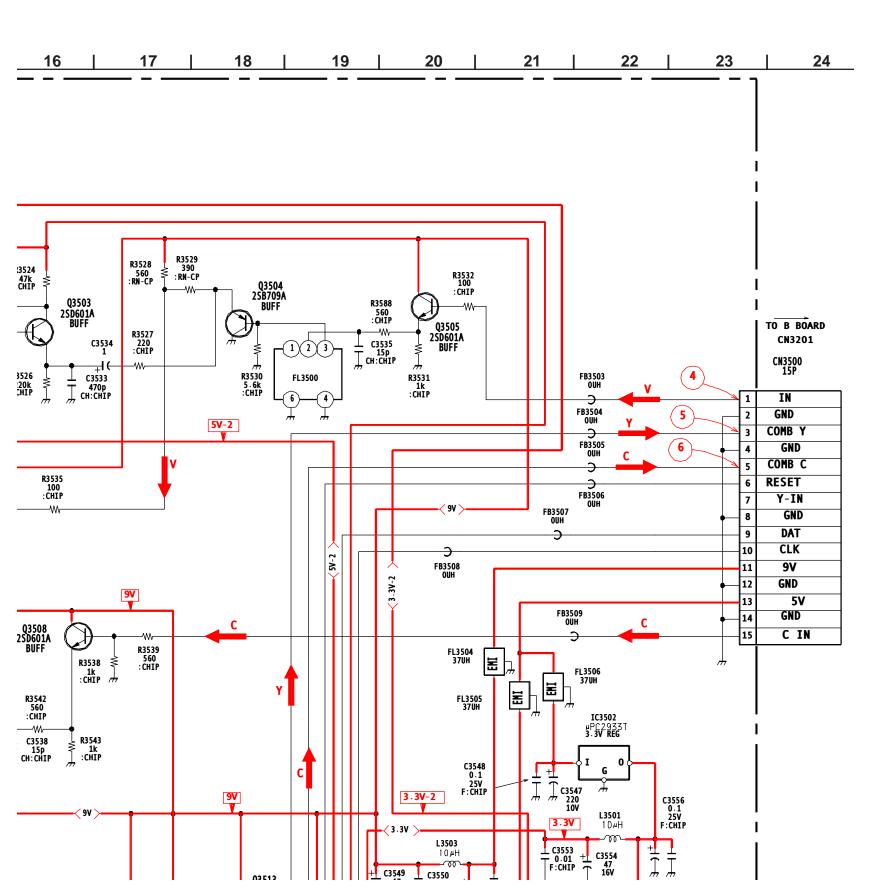




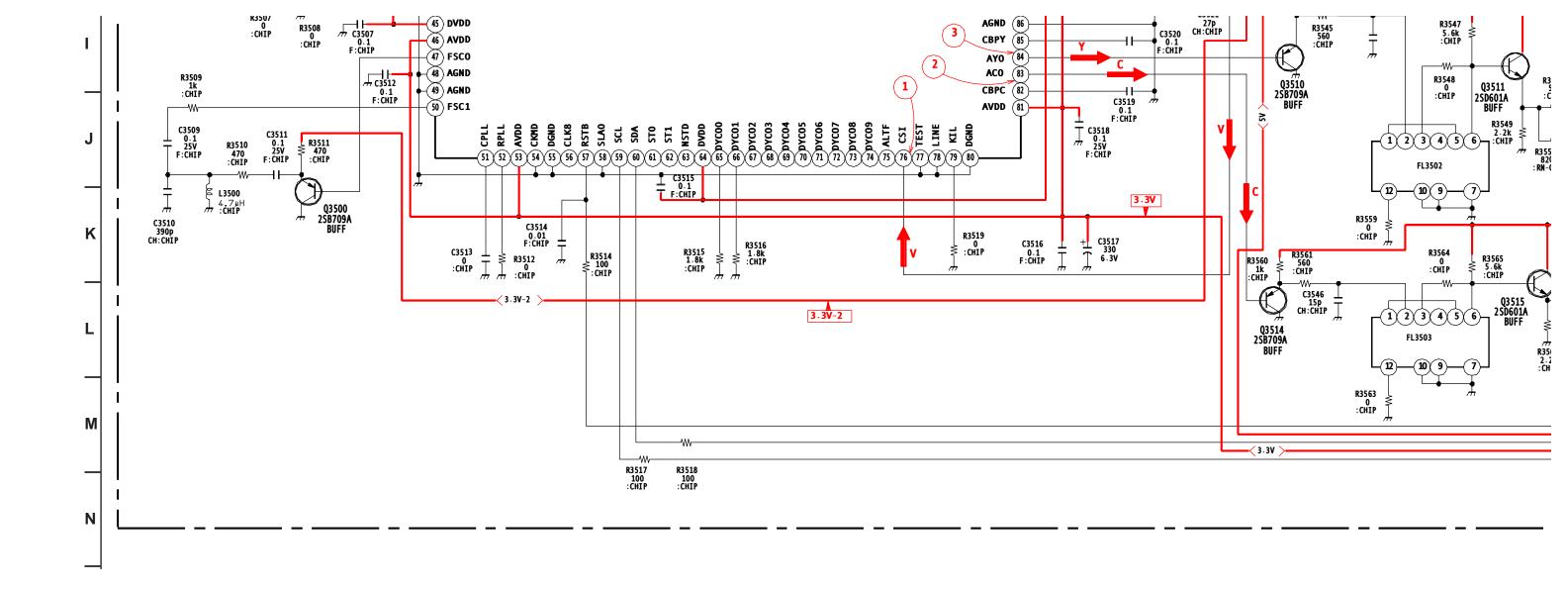
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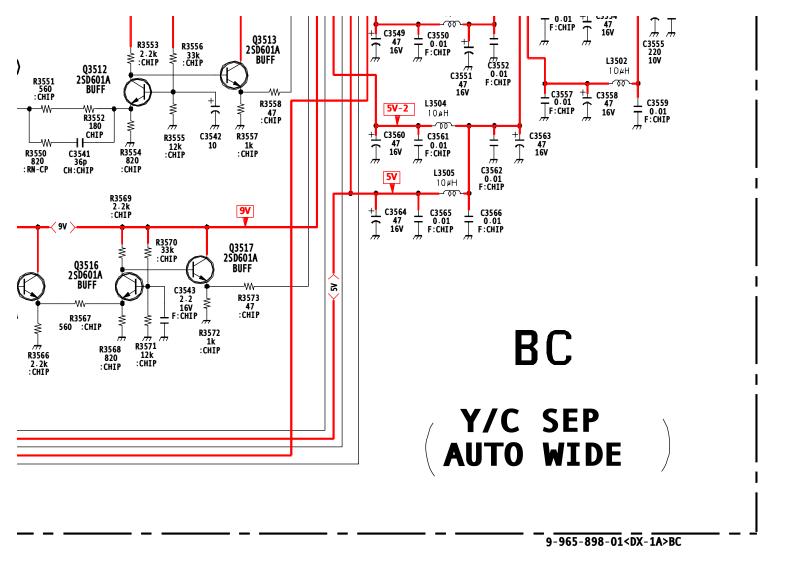


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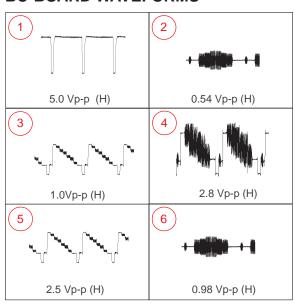


KV-32HS20/36HS20/36HS20H/32XBR450/36XBR450/36XBR450H

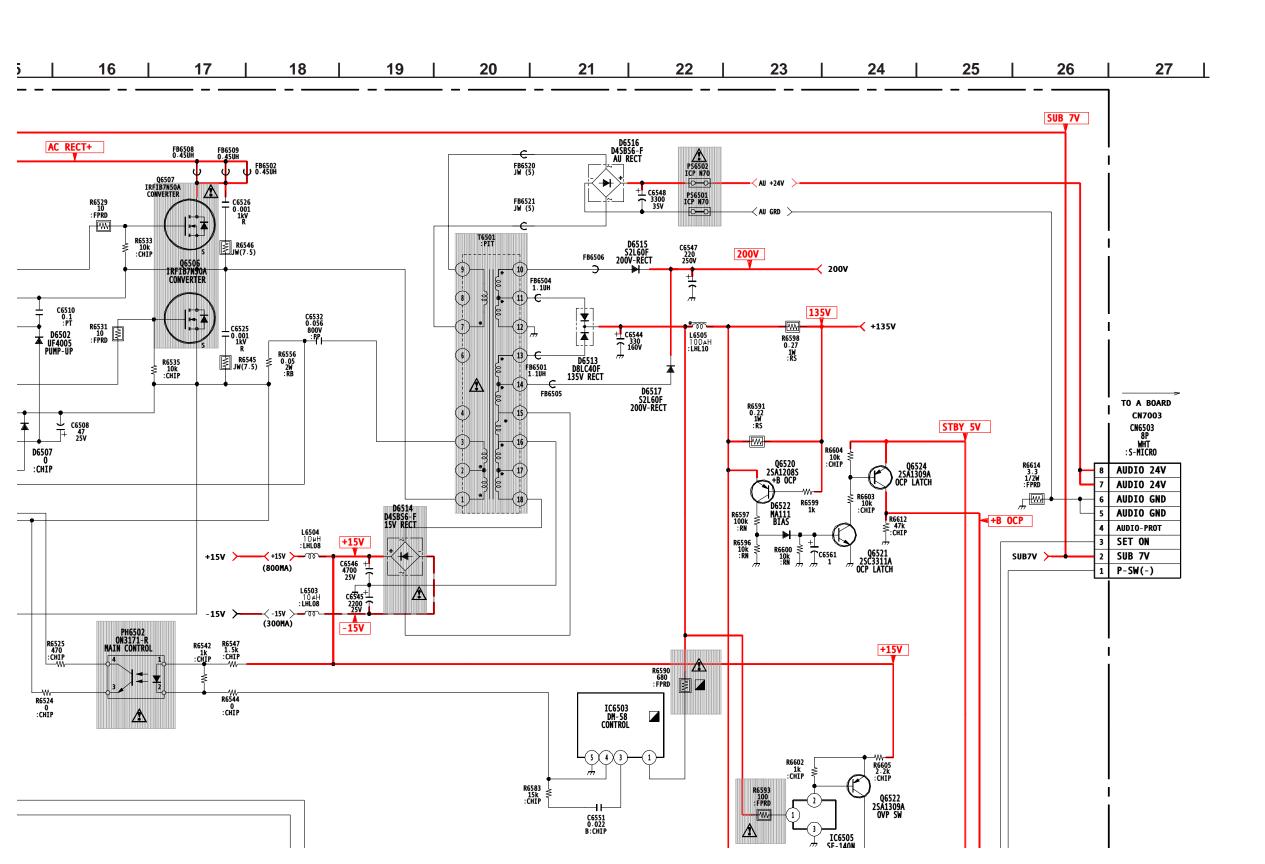


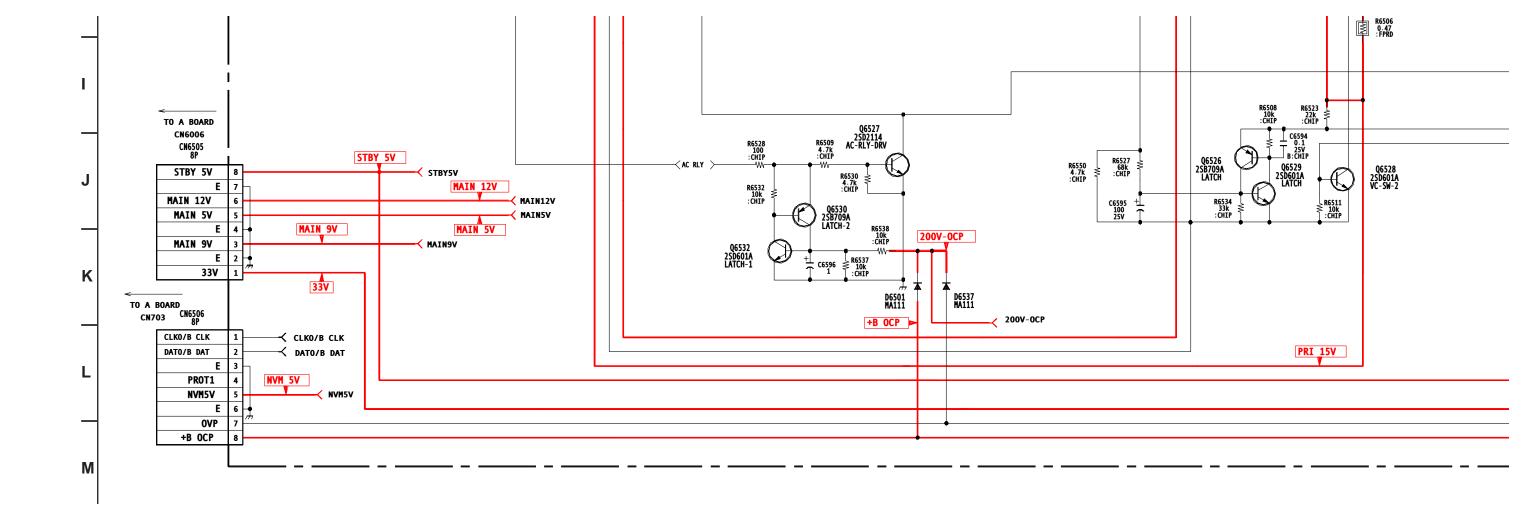


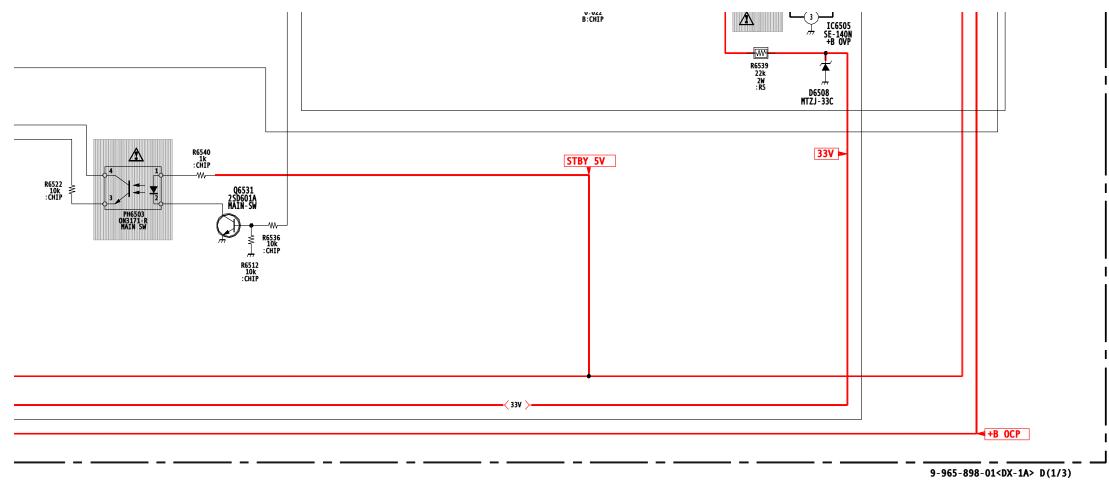
BC BOARD WAVEFORMS

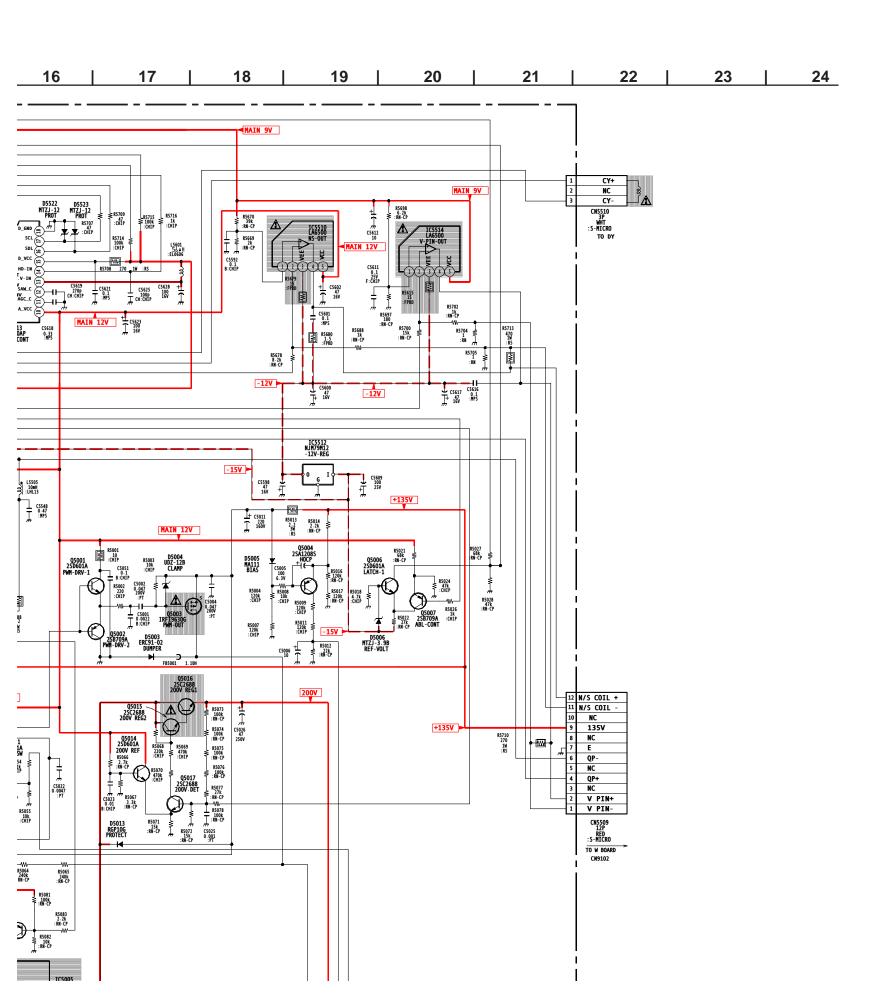


D BOARD SCHEMATIC DIAGRAM (1 OF 3) 10 12 13 | 14 | Α D (1/3) IC6501 MCZ3001D DRIVER **POWER SUPPLY** AC RECT В R6504 C6504 10k 0.01 :CHIP B:CHIP R6541 15k :CHIP R6526 0 · 1 1/2W :RF vs (≌ C R6553 330k :CHIP TO A BOARD CN6013 CN6502 2P WHT : MINI (LOCK) C6584 ____ 0.047 ___ 125V C6585 0.001 250V B AC RECT+ D RY6501 🔨 ₹ R6515 470k 1/2W ERC04-06SE AC OUT AC OUT C6516 0.001 B:CHIP TO A BOARD AC RECT+ Ε AC RECT+ ₹ R6557 100k :CHIP PH6501 ON3171-R RESISTOR SHORT PRI 15V AC RECT-PRI 15V R6519 0 :CHIP PRI 15V PRI 15V GND 6 F R6510 22 1W : RS TO A BOARD SUB 7V CN6504 8P G AC RLY TO P2 MAIN RLY ≺ MAIN RLY NORMAL E 7 /// Н

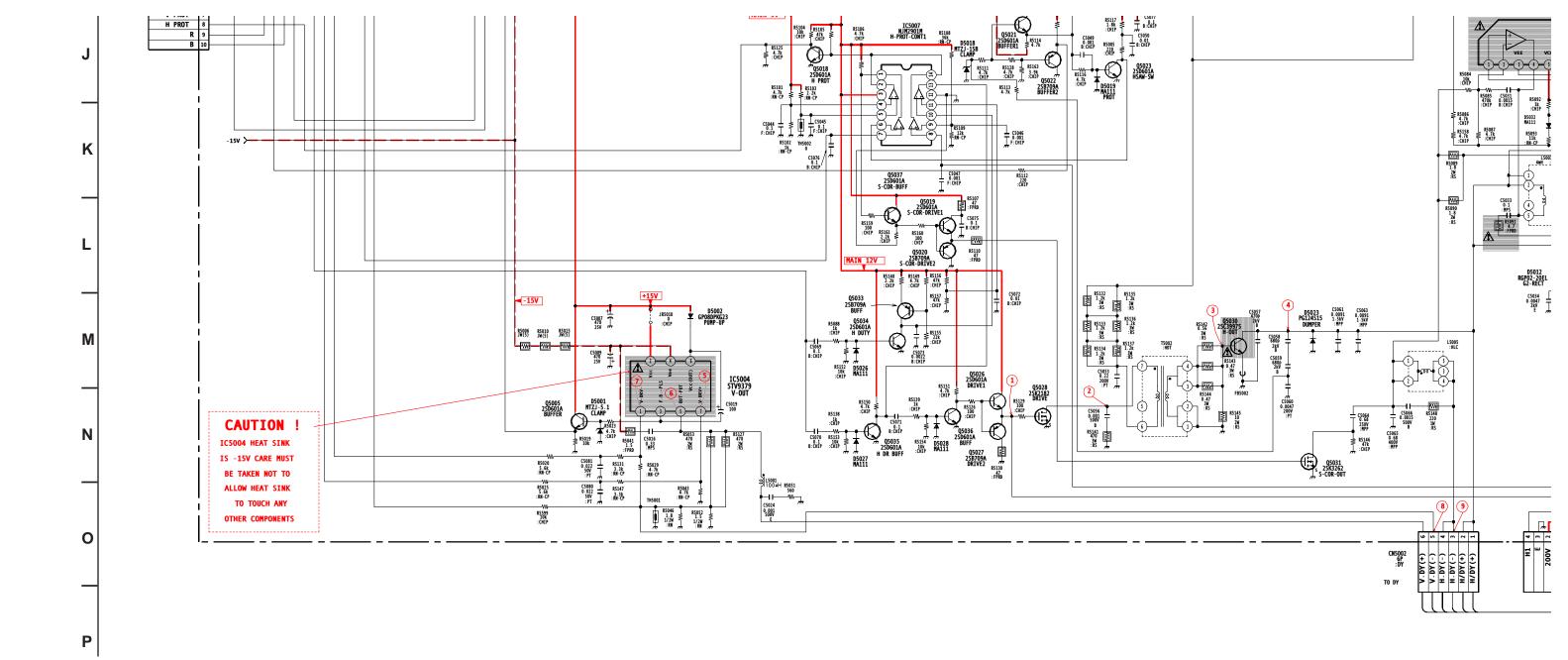


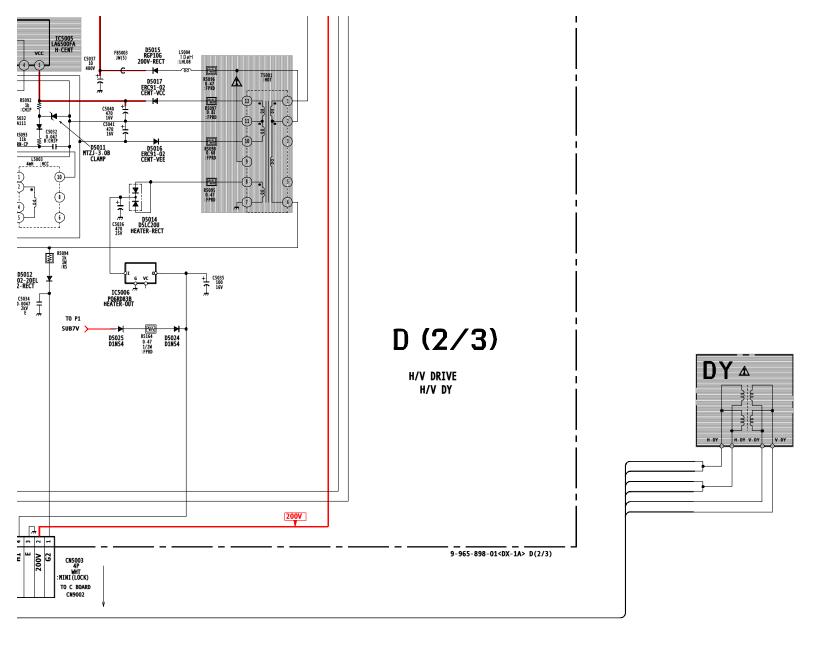




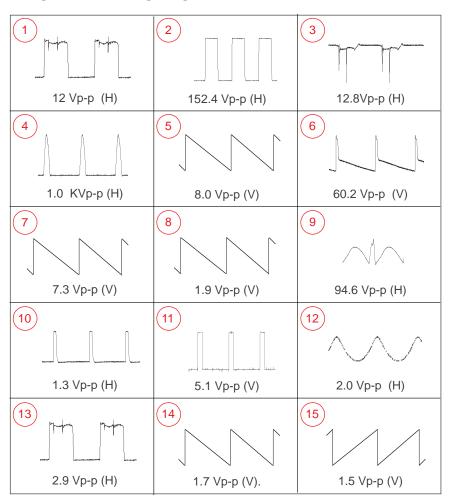


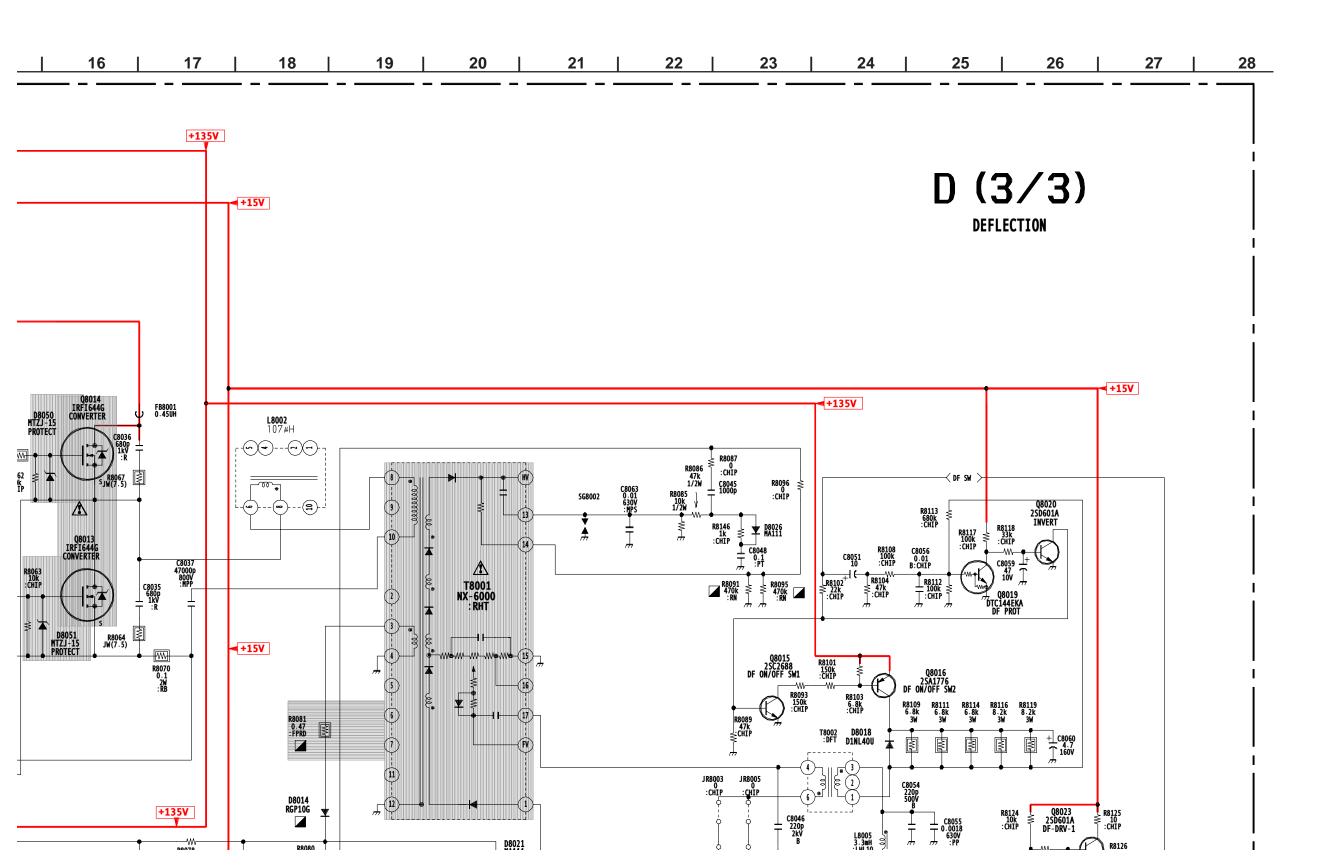
KV-32HS20/36HS20/36HS20H/32XBR450/36XBR450/36XBR450H

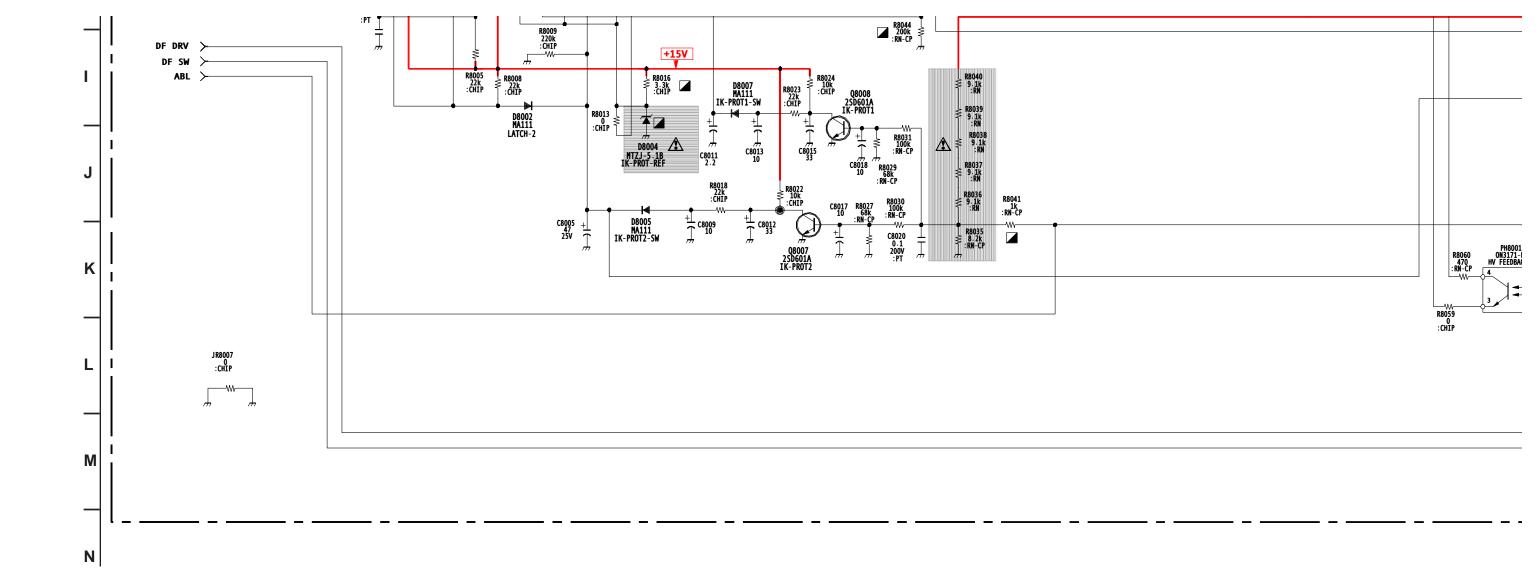


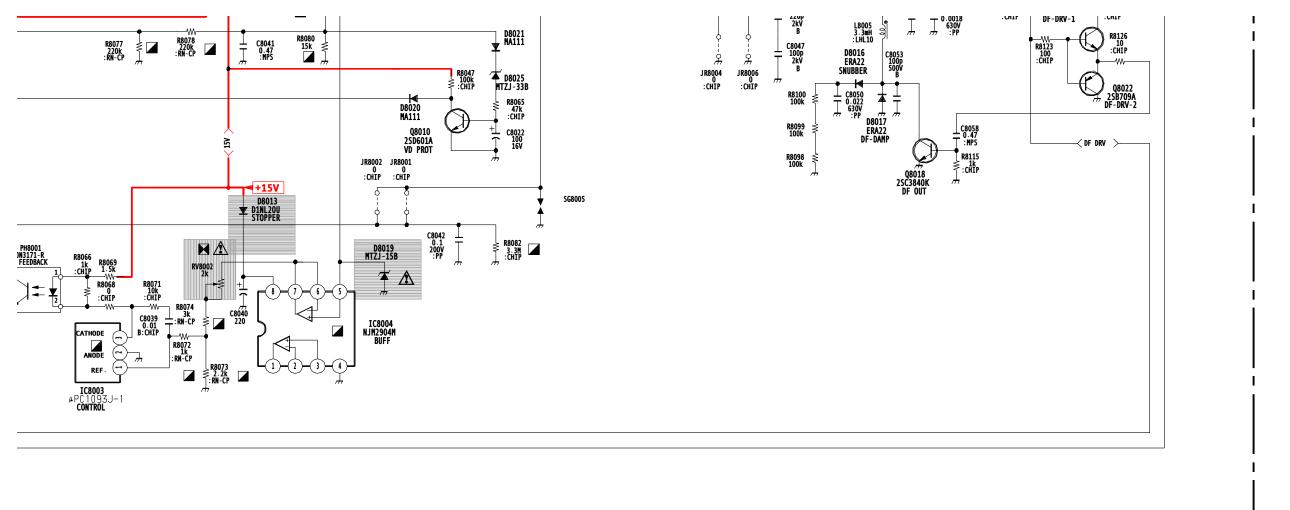


D BOARD WAVEFORMS









9-965-898-01<DX-1A> D(3/3)

PRINTING THE SERVICE MANUAL

The PDF of this service manual is not designed to be printed from cover to cover. The pages vary in size, and must therefore be printed in sections based on page dimensions.

NON-SCHEMATIC PAGES

Data that does NOT INCLUDE schematic diagrams are formatted to 8.5 x 11 inches and can be printed on standard letter-size and/or A4-sized paper.

SCHEMATIC DIAGRAMS

The schematic diagram pages are provided in two ways, full size and tiled. The full-sized schematic diagrams are formatted on paper sizes between 8.5" x 11" and 18" x 30" depending upon each individual diagram size. Those diagrams that are LARGER than 11" x 17" in full-size mode have been tiled for your convience and can be printed on standard 11" x 17" (tabloid-size) paper, and reassembled.

TO PRINT FULL SIZE SCHEMATIC DIAGRAMS _

If you have access to a large paper plotter or printer capable of outputting the full-sized diagrams, output as follows:

- 1) Note the page size(s) of the schematics you want to output as indicated in the middle window at the bottom of the viewing screen.
- 2) Go to the File menu and select Print Set-up. Choose the printer name and driver for your large format printer. Confirm that the printer settings are set to output the indicated page size or larger.
- 3) Close the Print Set Up screen and return to the File menu. Select "Print..." Input the page number of the schematic(s) you want to print in the print range window. Choose OK.

TO PRINT TILED VERSION OF SCHEMATICS -

Schematic pages that are larger than 11" x 17" full-size are provided in a 11" x 17" printable tiled format near the end of the document. These can be printed to tabloid-sized paper and assembled to full-size for easy viewing.

If you have access to a printer capable of outputting the tabloid size (11" x 17") paper, then output the tiled version of the diagram as follows:

- 1) Note the page number(s) of the schematics you want to output as indicated in the middle window at the bottom of the viewing screen.
- 2) Go to the File menu and select Print Set-up. Choose the printer name and driver for your printer. Confirm that the plotter settings are set to output 11" x 17", or tabloid size paper in landscape () mode.
- 3) Close the Print Set Up screen and return to the File menu. Select "Print..." Input the page number of the schematic(s) you want to print in the print range window. Choose OK.

TO PRINT SPECIFIC SECTIONS OF A SCHEMATIC_

To print just a particular section of a PDF, rather than a full page, access the Graphics Select tool in the Acrobat Reader tool bar.

- 1) To view the Graphics Select Tool, press the mouse button over the Text Select Tool which looks like:

 This tool will expand to reveal to additional tools.

 Choose the Graphics Select tool by placing the cursor over the button on of the far right that looks like:
- 2) After selecting the Graphics Select Tool, place your cursor in the document window and the cursor will change to a plus (+) symbol. Click and drag the cursor over the area you want to print. When you release the mouse button, a marquee (or dotted lined box) will be displayed outlining the area you selected.
- 3) With the marquee in place, go to the file menu and select the "Print..." option. When the print window appears, choose the option under the section called "Print Range" which says "Selected Graphic".

Select OK and the output will print only the area that you outlined with the marguee.

ON-SCREEN SEARCH OPTION

All of the text within the service manual PDF is content searchable. This means that you can enter any text, word, phrase or reference number that appears in the manual, and the PDF software will search, find and move the cursor to the location where you requested text first appears. This feature can be particularly useful in locating components on a specific schematic or printed wire circuit board (PWB) diagrams.

Follow these steps to effectively locate a component on a schematic diagram:

- 1) Locate the schematic you want to search by clicking on the corresponding bookmark on the left side of the screen. The view on the right of the screen will then jump to the desired schematic page.
- 2) Magnify the diagram to at least 400% before conducting a component search. This will enable you to easily view the reference number when it is highlighted on screen. To do this, click on the magnifying glass button on the tool bar at the top of the screen. Move the cursor over the diagram and RIGHT click you mouse. Select the 400% magnification option on the pop-up menu. Click on the button with the icon of the open hand to deactivate the magnification tool
- 3) Search the diagram (or the entire manual) by clicking on the binocular button tool at the top of the screen. The "Find" window will appear and allow you to type in your desired text. Type in a reference designator, such as R502, and click on the "Find" button. If the component is not on the diagram, but is listed anywhere else in the manual, the cursor will jump to the first location the text is found in the file. To find another instance of that same text, click on the binocular button again and select "Find Again."



SERVICE MANUAL

DX-1A CHASSIS

MODEL NAME	REMOTE COMMANDER	<u>DESTINATION</u>	CHASSIS NO.
KV-32HS20	RM-Y183	US	SCC-S47F-A
KV-36HS20	RM-Y183	US	SCC-S47E-A
KV-36HS20H	RM-Y183	HAWAII	SCC-S54C-A
KV-32XBR450	RM-Y184	US	SCC-S47D-A
KV-32XBR450	RM-Y184	CND	SCC-S48D-A
KV-36XBR450	RM-Y184	US	SCC-S47C-A
KV-36XBR450	RM-Y184	CND	SCC-S48C-A
KV-36XBR450H	RM-Y184	HAWAII	SCC-S54B-A

CORRECTION - 1

SUBJECT: DELETION OF P/N X-4038-979-1; BEZEL ASSY.

Correct the service manual as shown. File this Correction with the service manual.

: Corrected Item

Section 6: Exploded View (Page 93)

6-2. Picture Tube (KV-32HS20/32XBR450 ONLY)

INCORRECT				CORRECT			
REF. N	O. PART NO.	DESCRIPTION	[Assembly Includes]	REF. NO.	PART NO.	DESCRIPTION	
30a	X-4038-979-1	BEZEL ASSY (KV-32HS20 ONLY)	34-39	DELETE			

TRINITRON® COLOR TELEVISION



Sony Corporation
Sony Technology Center
Technical Services
Service Promotion Department

HISTORY INFORMATION FOR THE FOLLOWING MANUAL:

SERVICE MANUAL

DX-1A CHASSIS

MODEL NAME	REMOTE COMMANDER	DESTINATION	CHASSIS NO.
KV-32HS20	RM-Y183	US	SCC-S47F-A
KV-36HS20	RM-Y183	US	SCC-S47E-A
KV-36HS20H	RM-Y183	HAWAII	SCC-S54C-A
KV-32XBR450	RM-Y184	US	SCC-S47D-A
KV-32XBR450	RM-Y184	CND	SCC-S48D-A
KV-36XBR450	RM-Y184	US	SCC-S47C-A
KV-36XBR450	RM-Y184	CND	SCC-S48C-A
KV-36XBR450F	RM-Y184	HAWAII	SCC-S54B-A

ORIGINAL MANUAL ISSUE DATE: 3/2001

ALL REVISIONS AND UPDATES TO THE ORIGINAL MANUAL ARE APPENDED TO THE END OF THE PDF FILE.

REVISION DATE	REVISION TYPE	SUBJECT	_
3/2001 10/2001	No revisions or updates are CORRECTION-1	e applicable at this time. Deletion of P/N X-4038-979-1	

